



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 188266

TO: Nita M Minnifield  
Location: rem-3c01/3c18  
Art Unit: 1645  
Wednesday, May 10, 2006  
Case Serial Number: 08/170344

From: Kristine Hensle  
Location: Biotech-Chem Library  
REM-1B69  
Phone: (571)272-4161

Kristine.Hensle@uspto.gov

### Search Notes

Examiner Minnifield,

See attached results. This packet is part 3 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle  
Librarian  
STIC Biotech/Chem Library  
(571)272-4161

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5/11/06  
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OM protein - protein search, using bw model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds  
(without alignments)  
35.946 Million cell updates/sec

Title: US-08-170-344-20  
Perfect score: 47  
Sequence: 1 TLGIVAPIC 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues  
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
1: /cgn2\_6/ptodata/1/1aa/5\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/6\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/H\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/PCITUS\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfill1est.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	# Query Match	Length	DB ID	Description
1	43	91.5	9	2	US-08-948-378A-2
2	43	91.5	9	2	US-09-169-425C-2
3	43	91.5	9	2	US-08-197-48A-68
4	43	91.5	9	2	US-09-759-960-2
5	43	91.5	9	4	PCT-US95-02121-68
6	43	91.5	10	2	US-09-000-003A-9
7	43	91.5	10	2	US-09-405-986A-10
8	43	91.5	11	2	US-09-169-425C-31
9	43	91.5	11	2	US-09-169-425C-33
10	43	91.5	11	2	US-09-759-960-31
11	43	91.5	11	2	US-09-759-960-33
12	43	91.5	12	2	US-08-948-378A-16
13	43	91.5	12	2	US-09-169-425C-16
14	43	91.5	12	2	US-09-759-960-16
15	43	91.5	13	2	US-08-948-378A-3
16	43	91.5	13	2	US-08-948-378A-4
17	43	91.5	13	2	US-08-948-378A-19
18	43	91.5	13	2	US-08-159-339A-1167
19	43	91.5	13	2	US-09-169-425C-3
20	43	91.5	13	2	US-09-169-425C-4
21	43	91.5	13	2	US-09-169-425C-19
22	43	91.5	13	2	US-09-759-960-3
23	43	91.5	13	2	US-09-759-960-4
24	43	91.5	13	2	US-09-759-960-19
25	43	91.5	14	2	US-09-169-425C-32
26	43	91.5	14	2	US-09-759-960-32
27	43	91.5	15	2	US-08-159-339A-1168

28	43	91.5	16	2	US-09-169-425C-25	Sequence 25, Appl
29	43	91.5	16	2	US-09-759-960-25	Sequence 25, Appl
30	43	91.5	19	2	US-09-980-523A-18	Sequence 18, Appl
31	43	91.5	20	2	US-08-075-541D-50	Sequence 50, Appl
32	43	91.5	21	1	US-08-934-915-50	Sequence 50, Appl
33	43	91.5	21	1	US-08-934-915-157	Sequence 157, Appl
34	43	91.5	21	2	US-09-980-177A-76	Sequence 76, Appl
35	43	91.5	26	2	US-08-075-541D-40	Sequence 40, Appl
36	43	91.5	28	2	US-09-486-394-5	Sequence 5, Appl
37	43	91.5	30	1	US-08-934-915-54	Sequence 54, Appl
38	43	91.5	38	2	US-08-948-378A-6	Sequence 6, Appl
39	43	91.5	38	2	US-09-169-425C-6	Sequence 6, Appl
40	43	91.5	38	2	US-09-759-960-6	Sequence 6, Appl
41	43	91.5	98	1	US-08-406-248-6	Sequence 6, Appl
42	43	91.5	98	2	US-08-075-541D-42	Sequence 42, Appl
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50	43	91.5	98	2	US-09-824-017-4	Sequence 4, Appl
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52	43	91.5	98	2	US-10-201-764-19	Sequence 19, Appl
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57	43	91.5	121	2	US-10-267-311-12	Sequence 12, Appl
58	43	91.5	172	2	US-08-860-165-14	Sequence 14, Appl
59	43	91.5	172	2	US-09-359-382-14	Sequence 14, Appl
60	43	91.5	185	2	US-09-462-993-2	Sequence 2, Appl
61	43	91.5	198	2	US-09-613-303-35	Sequence 35, Appl
62	43	91.5	198	2	US-10-267-311-35	Sequence 35, Appl
63	43	91.5	220	2	US-09-485-885-1	Sequence 1, Appl
64	43	91.5	220	2	US-09-485-885-8	Sequence 8, Appl
65	43	91.5	239	2	US-09-485-885-12	Sequence 12, Appl
66	43	91.5	253	1	US-08-455-818-20	Sequence 20, Appl
67	43	91.5	253	1	US-08-889-666-40	Sequence 40, Appl
68	43	91.5	253	1	US-08-465-078-20	Sequence 20, Appl
69	43	91.5	253	1	US-08-725-776-20	Sequence 20, Appl
70	43	91.5	253	1	US-08-488-062-20	Sequence 20, Appl
71	43	91.5	263	1	US-08-117-083-9	Sequence 9, Appl
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73	43	91.5	266	2	US-09-359-382-10	Sequence 10, Appl
74	43	91.5	266	2	US-09-367-309A-1	Sequence 1, Appl
75	43	91.5	287	2	US-09-501-097A-25	Sequence 25, Appl
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77	43	91.5	295	2	US-10-267-311-33	Sequence 33, Appl
78	43	91.5	324	2	US-09-613-303-25	Sequence 25, Appl
79	43	91.5	324	2	US-10-267-311-25	Sequence 25, Appl
80	43	91.5	371	2	US-09-485-885-6	Sequence 6, Appl
81	43	91.5	390	2	US-09-485-885-14	Sequence 14, Appl
82	43	91.5	420	2	US-09-501-097A-22	Sequence 22, Appl
83	43	91.5	493	2	US-09-613-303-19	Sequence 19, Appl
84	43	91.5	493	2	US-10-267-311-19	Sequence 19, Appl
85	43	91.5	639	2	US-09-613-303-17	Sequence 17, Appl
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87	43	91.5	641	2	US-09-613-303-51	Sequence 51, Appl
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89	43	91.5	647	2	US-09-613-303-53	Sequence 53, Appl
90	43	91.5	647	2	US-10-267-311-53	Sequence 53, Appl
91	43	91.5	648	2	US-09-613-303-29	Sequence 29, Appl
92	43	91.5	648	2	US-10-267-311-29	Sequence 29, Appl
93	43	91.5	711	2	US-09-613-303-41	Sequence 41, Appl
94	43	91.5	711	2	US-10-267-311-41	Sequence 41, Appl
95	43	91.5	723	2	US-09-501-097A-20	Sequence 20, Appl
96	43	91.5	723	2	US-09-613-303-45	Sequence 45, Appl
97	43	91.5	724	2	US-10-267-311-45	Sequence 45, Appl
98	43	91.5	9	2	US-10-365-908-21	Sequence 21, Appl
99	38	80.9	435	2	US-09-489-039A-9822	Sequence 9822, Ap
100	37	78.7	36	2	US-09-000-094-30	Sequence 30, Appl

101	37	78.7	36	2	US-10-011-749-30	Sequence 30, Appl	174	32	68.1	1167	2	US-09-008-097-6	Sequence 6, Appl1
102	37	78.7	375	2	US-09-000-094-52	Sequence 22, Appl	175	32	68.1	1167	2	US-09-472-667-6	Sequence 6, Appl1
103	37	78.7	375	2	US-10-011-749-22	Sequence 22, Appl	176	32	68.1	1168	2	US-09-474-076-2	Sequence 2, Appl1
104	37	78.7	465	2	US-09-000-094-24	Sequence 24, Appl	177	32	68.1	1168	2	US-09-472-667-11	Sequence 11, Appl1
105	37	78.7	465	2	US-10-011-749-24	Sequence 24, Appl	178	32	68.0	1168	2	US-10-001-000-2	Sequence 2, Appl1
106	37	78.7	601	1	US-08-606-288-7	Sequence 7, Appl1	179	31	66.0	28	2	US-10-144-929-158	Sequence 158, App
107	37	78.7	601	1	US-08-606-288-10	Sequence 10, Appl1	180	31	66.0	48	2	US-10-144-929-186	Sequence 186, App
108	37	78.7	601	2	US-09-347-483-7	Sequence 7, Appl1	181	31	66.0	101	2	US-09-270-767-39735	Sequence 39735, A
109	37	78.7	601	2	US-09-347-483-10	Sequence 10, Appl1	182	31	66.0	101	2	US-09-270-767-534952	Sequence 534952, A
110	37	78.7	1587	2	US-09-000-094-46	Sequence 46, Appl1	183	31	66.0	129	2	US-09-543-681A-8076	Sequence 8076, Ap
111	37	78.7	1587	2	US-10-011-749-46	Sequence 46, Appl1	184	31	66.0	139	2	US-09-328-352-7541	Sequence 7541, Ap
112	36	76.6	8	2	US-09-169-425C-26	Sequence 26, Appl1	185	31	66.0	175	2	US-10-144-929-106	Sequence 106, App
113	36	76.6	8	2	US-09-759-960-26	Sequence 26, Appl1	186	31	66.0	235	2	US-09-769-787-58	Sequence 58, App
114	35	74.5	412	2	US-09-311-021-42	Sequence 42, Appl1	187	31	66.0	235	2	US-09-769-787-59	Sequence 59, Appl1
115	35	74.5	458	2	US-09-328-352-4741	Sequence 4741, Ap	188	31	66.0	249	2	US-09-107-532A-7142	Sequence 7142, Ap
116	35	74.5	711	2	US-09-134-000C-5470	Sequence 5470, Ap	189	31	66.0	254	2	US-09-372-422A-34	Sequence 34, Appl1
117	34	72.3	8	1	US-08-787-547-107	Sequence 107, Ap	190	31	66.0	280	2	US-09-949-016-10934	Sequence 10934, A
118	34	72.3	8	2	US-09-169-425C-20	Sequence 20, Appl1	191	31	66.0	293	2	US-09-270-767-35191	Sequence 35191, A
119	34	72.3	8	2	US-08-704-344-21	Sequence 21, Appl1	192	31	66.0	351	2	US-09-370-767-50408	Sequence 50408, A
120	34	72.3	8	2	US-09-759-960-20	Sequence 20, Appl1	193	31	66.0	351	2	US-09-540-236-2556	Sequence 2556, Ap
121	34	72.3	8	2	US-09-601-729-272	Sequence 272, Appl	194	31	66.0	413	2	US-09-107-443-4507	Sequence 4507, Ap
122	34	72.3	9	2	US-09-169-425C-21	Sequence 21, Appl1	195	31	66.0	452	2	US-09-352-991A-15116	Sequence 15116, A
123	34	72.3	9	2	US-09-169-425C-27	Sequence 27, Appl1	196	31	66.0	472	2	US-09-489-039A-8418	Sequence 8418, Ap
124	34	72.3	9	2	US-08-197-484-70	Sequence 70, Appl1	197	31	66.0	503	2	US-09-583-110-4277	Sequence 4277, Ap
125	34	72.3	9	2	US-09-759-960-21	Sequence 21, Appl1	198	31	66.0	503	2	US-09-583-110-4277	Sequence 74, Appl1
126	34	72.3	9	2	US-09-759-960-27	Sequence 27, Appl1	199	31	66.0	523	2	US-09-270-767-43156	Sequence 43156, A
127	34	72.3	9	2	US-10-365-908-50	Sequence 50, Appl1	200	31	66.0	536	2	US-09-107-433-2945	Sequence 2945, Ap
128	34	72.3	9	4	PCT-US95-02121-70	Sequence 70, Appl1	201	31	66.0	540	2	US-09-452-991A-18967	Sequence 18967, A
129	34	72.3	10	2	US-08-159-339A-572	Sequence 572, Appl	202	31	66.0	575	1	US-08-403-866-7	Sequence 7, Appl1
130	34	72.3	10	2	US-10-365-908-12	Sequence 12, Appl	203	31	66.0	618	2	US-08-595-553A-2	Sequence 2, Appl1
131	34	72.3	10	2	US-10-365-908-46	Sequence 46, Appl1	204	31	66.0	618	2	US-09-640-198D-4	Sequence 4, Appl1
132	34	72.3	59	2	US-09-390-027-6	Sequence 6, Appl1	205	31	66.0	618	2	US-09-995-007-2	Sequence 2, Appl1
133	34	72.3	155	2	US-08-716-190-8	Sequence 8, Appl1	206	31	66.0	643	1	US-08-245-511-47	Sequence 47, Appl1
134	34	72.3	458	2	US-09-568-470A-1	Sequence 1, Appl1	207	31	66.0	643	1	US-08-600-993A-47	Sequence 47, Appl1
135	34	72.3	460	2	US-09-457-046B-71	Sequence 71, Appl1	208	31	66.0	660	2	US-09-583-110-3976	Sequence 3976, Ap
136	34	72.3	460	2	US-09-866-570B-8	Sequence 8, Appl1	209	31	66.0	966	4	PCT-US91-09422-17	Sequence 17, Appl1
137	34	72.3	262	2	US-09-543-681A-5467	Sequence 5467, Ap	210	31	66.0	1199	1	US-08-041-538-2	Sequence 2, Appl1
138	33	70.2	262	2	US-09-270-767-57404	Sequence 57404, A	211	31	66.0	1199	1	US-08-463-642-2	Sequence 2, Appl1
139	33	70.2	294	2	US-09-270-767-42136	Sequence 42136, A	212	31	66.0	1199	1	US-08-455-602-2	Sequence 2, Appl1
140	33	70.2	339	2	US-09-949-016-6274	Sequence 6274, Ap	213	31	66.0	1199	1	US-08-465-157-2	Sequence 2, Appl1
141	33	70.2	360	2	US-09-020-743-2	Sequence 2, Appl1	214	31	66.0	1199	4	PCT-US91-09422-6	Sequence 6, Appl1
142	33	70.2	391	2	US-09-949-016-9863	Sequence 9863, Ap	215	31	66.0	1219	1	US-08-687-289A-6	Sequence 6, Appl1
143	33	70.2	449	2	US-09-328-352-7512	Sequence 7512, Ap	216	31	66.0	1219	2	US-09-435-897-6	Sequence 6, Appl1
144	33	70.2	1180	9	US-08-726-214-12	Sequence 12, Appl1	217	30	63.8	46	2	US-09-973-378-182	Sequence 182, App
145	32	68.1	9	2	US-08-660-092-125	Sequence 125, App	218	30	63.8	47	2	US-09-227-357-174	Sequence 174, App
146	32	68.1	9	2	US-09-160-513-125	Sequence 125, Appl	219	30	63.8	70	2	US-09-248-796A-21327	Sequence 21327, A
147	32	68.1	9	2	US-10-365-908-74	Sequence 74, Appl	220	30	63.8	80	1	US-08-637-759B-472	Sequence 472, App
148	32	68.1	92	2	US-09-902-540-10408	Sequence 10408, A	221	30	63.8	80	2	US-08-871-355A-472	Sequence 472, App
149	32	68.1	103	2	US-09-605-703B-728	Sequence 728, App	222	30	63.8	80	2	US-09-201-945-472	Sequence 472, App
150	32	68.1	107	2	US-09-270-767-40343	Sequence 40343, A	223	30	63.8	107	2	US-09-270-767-48581	Sequence 48581, A
151	32	68.1	107	2	US-09-270-767-55559	Sequence 55559, A	224	30	63.8	140	2	US-09-949-016-6789	Sequence 6789, App
152	32	68.1	114	2	US-09-605-703B-726	Sequence 726, Appl	225	30	63.8	154	2	US-08-716-190-6	Sequence 6, Appl1
153	32	68.1	188	2	US-09-489-039A-7704	Sequence 7704, Ap	226	30	63.8	157	2	US-08-716-190-4	Sequence 4, Appl1
154	32	68.1	203	2	US-09-399-913-12	Sequence 12, Appl1	227	30	63.8	159	2	US-08-716-190-10	Sequence 10, Appl1
155	32	68.1	203	2	US-09-298-731-12	Sequence 12, Appl1	228	30	63.8	161	2	US-08-716-190-2	Sequence 2, Appl1
156	32	68.1	203	2	US-09-350-614-12	Sequence 12, Appl1	229	30	63.8	164	2	US-09-949-016-7480	Sequence 7480, Ap
157	32	68.1	239	2	US-09-270-767-32590	Sequence 32590, A	230	30	63.8	165	2	US-10-101-464A-559	Sequence 539, App
158	32	68.1	239	2	US-09-270-767-47807	Sequence 47807, A	231	30	63.8	172	2	US-10-101-464A-536	Sequence 536, App
159	32	68.1	245	2	US-09-399-913-4	Sequence 4, Appl1	232	30	63.8	176	2	US-09-198-185A-962	Sequence 1032, Ap
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161	32	68.1	245	2	US-09-350-614-4	Sequence 4, Appl1	234	30	63.8	188	2	US-09-710-279-2718	Sequence 2718, Ap
162	32	68.1	245	2	US-09-248-796A-18315	Sequence 18315, A	235	30	63.8	189	2	US-09-248-796A-16820	Sequence 16820, A
163	32	68.1	333	1	US-08-148-215A-4	Sequence 4, Appl1	236	30	63.8	197	2	US-09-605-703B-2814	Sequence 2814, Ap
164	32	68.1	333	1	US-09-170-496D-16	Sequence 16, Appl1	237	30	63.8	198	2	US-09-134-001C-3313	Sequence 3313, Ap
165	32	68.1	333	2	US-09-170-496D-172	Sequence 172, Appl	238	30	63.8	203	2	US-09-912-363-206	Sequence 206, Appl
166	32	68.1	337	2	US-09-543-681A-4839	Sequence 4839, App	239	30	63.8	203	2	US-09-399-913-49	Sequence 49, Appl
167	32	68.1	349	2	US-09-489-039A-10257	Sequence 10257, A	240	30	63.8	233	2	US-09-399-913-51	Sequence 51, Appl1
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169	32	68.1	604	2	US-09-008-097-4	Sequence 4, Appl1	242	30	63.8	235	2	US-09-502-540-9819	Sequence 9819, Ap
170	32	68.1	604	2	US-09-472-667-4	Sequence 4, Appl1	243	30	63.8	244	2	US-09-583-110-4058	Sequence 4058, Ap
171	32	68.1	1147	2	US-09-949-016-8861	Sequence 8861, Ap	244	30	63.8	241	2	US-09-270-767-43130	Sequence 43130, A
172	32	68.1	1147	2	US-09-949-016-8862	Sequence 8862, Ap	245	30	63.8	243	2	US-09-107-532A-4665	Sequence 4665, Ap
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258	30	63.8	492	2	US-09-252-991A-24376	Sequence 24376, A
259	30	63.8	737	2	US-09-955-732A-13	Sequence 13, Appl
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282	30	63.8	1323	2	US-09-949-016-6553	Sequence 6553, Ap
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284	30	63.8	1435	2	US-09-949-016-9943	Sequence 9943, Ap
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400	28	59.6	9	2	US-08-660-092-74	Sequence 74, Appl	473	28	59.6	313	2	US-09-561-763-8	Sequence 8, Appl1
401	28	59.6	9	2	US-08-660-092-182	Sequence 182, App	474	28	59.6	313	2	US-09-431-367B-8	Sequence 8, Appl1
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411	28	59.6	73	2	US-09-206-551-34	Sequence 34, Appl	483	28	59.6	376	2	US-09-107-858-10	Sequence 10, Appl
412	28	59.6	73	2	US-09-206-551-38	Sequence 38, Appl	484	28	59.6	376	2	US-09-579-114-10	Sequence 10, Appl
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552	28	59.6	708	2	US-09-906-646-69	Sequence 69, Appl	625	27	57.4	46	2	US-09-643-914-12	Sequence 12, Appl
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581	28	59.6	923	2	US-09-862-027-23	Sequence 23, Appl	654	27	57.4	123	2	US-09-251-835-4	Sequence 4, Appli
582	28	59.6	925	2	US-09-252-991A-24529	Sequence 24529, A	655	27	57.4	123	2	US-09-251-835-7	Sequence 7, Appli
583	28	59.6	1180	1	US-08-072-574-8	Sequence 8, Appli	656	27	57.4	123	2	US-09-318-503-4	Sequence 4, Appli
584	28	59.6	1180	1	US-08-486-270-8	Sequence 8, Appli	657	27	57.4	123	2	US-09-318-503-7	Sequence 7, Appli
585	28	59.6	1180	2	US-08-367-264-8	Sequence 8, Appli	658	27	57.4	123	2	US-09-038-261A-4	Sequence 4, Appli
586	28	59.6	1180	2	US-08-660-148-2	Sequence 2, Appli	659	27	57.4	123	2	US-09-038-261A-7	Sequence 7, Appli
587	28	59.6	1180	2	US-09-153-757-8	Sequence 8, Appli	660	27	57.4	123	2	US-09-564-339A-4	Sequence 4, Appli
588	28	59.6	1180	2	US-09-459-715-8	Sequence 8, Appli	661	27	57.4	123	2	US-09-564-339A-7	Sequence 7, Appli
589	28	59.6	1212	1	US-08-072-574-10	Sequence 10, Appl	662	27	57.4	123	2	US-09-963-620-4	Sequence 4, Appli
590	28	59.6	1212	1	US-08-486-270-10	Sequence 10, Appl	663	27	57.4	123	2	US-09-963-620-7	Sequence 7, Appli
591	28	59.6	1212	2	US-08-367-264-10	Sequence 10, Appl	664	27	57.4	123	2	US-09-855-632-4	Sequence 4, Appli
592	28	59.6	1212	2	US-08-660-148-5	Sequence 5, Appli	665	27	57.4	123	2	US-09-855-632-7	Sequence 7, Appli
593	28	59.6	1212	2	US-09-153-757-10	Sequence 10, Appl	666	27	57.4	123	2	US-09-934-773-4	Sequence 4, Appli
594	28	59.6	1212	2	US-09-459-715-10	Sequence 10, Appl	667	27	57.4	123	2	US-09-934-773-7	Sequence 7, Appli
595	28	59.6	1212	2	US-09-695-481-7	Sequence 7, Appli	668	27	57.4	123	2	US-09-885-153-4	Sequence 4, Appli
596	28	59.6	1498	1	US-08-404-531B-28	Sequence 28, Appl	669	27	57.4	123	2	US-09-885-153-7	Sequence 7, Appli
597	28	59.6	1498	1	US-08-404-531B-29	Sequence 29, Appl	670	27	57.4	123	2	US-10-224-720-4	Sequence 4, Appli
598	28	59.6	1498	2	US-08-476-900A-28	Sequence 28, Appl	671	27	57.4	123	2	US-10-224-720-7	Sequence 7, Appli
599	28	59.6	1498	2	US-08-476-900A-29	Sequence 29, Appl	672	27	57.4	128	2	US-09-328-352-8017	Sequence 8017, App
600	28	59.6	1498	2	US-08-488-546A-28	Sequence 28, Appl	673	27	57.4	129	2	US-09-270-767-35885	Sequence 35885, A
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602	28	59.6	1580	2	US-08-726-320-1	Sequence 1, Appli	675	27	57.4	129	2	US-09-830-220A-181	Sequence 181, App
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608	28	59.6	1581	2	US-08-726-320-4	Sequence 4, Appli	681	27	57.4	137	2	US-09-319-056B-20	Sequence 20, Appl
609	28	59.6	1581	2	US-09-208-716-3	Sequence 3, Appli	682	27	57.4	137	2	US-10-081-817A-30	Sequence 30, Appl
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611	28	59.6	1582	1	US-08-404-531B-9	Sequence 9, Appli	684	27	57.4	138	2	US-09-461-335-244	Sequence 244, App

685	27	57.4	138	2	US-09-461-325-445	Sequence 445, App	758	27	57.4	286	2	US-10-004-860-1063	Sequence 1063, App
686	27	57.4	138	2	US-09-252-991A-19277	Sequence 19277, A	759	27	57.4	281	2	US-09-252-991A-22804	Sequence 22804, A
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691	27	57.4	150	2	US-09-543-681A-8244	Sequence 8244, App	764	27	57.4	298	2	US-09-620-412C-129	Sequence 129, App
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694	27	57.4	160	2	US-09-270-767-52531	Sequence 52531, A	767	27	57.4	303	2	US-09-598-419-129	Sequence 123, App
695	27	57.4	163	1	US-08-687-916-16	Sequence 16, App1	768	27	57.4	303	2	US-09-347-819-6	Sequence 6, App1
696	27	57.4	163	2	US-09-138-614-16	Sequence 16, App1	769	27	57.4	306	2	US-09-602-777A-408	Sequence 408, App
697	27	57.4	167	2	US-09-198-452A-166	Sequence 166, App	770	27	57.4	306	2	US-09-602-777A-408	Sequence 408, App
698	27	57.4	167	2	US-09-438-185A-148	Sequence 148, App	771	27	57.4	306	2	US-09-602-777A-408	Sequence 408, App
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704	27	57.4	175	2	US-08-858-207A-363	Sequence 363, App	777	27	57.4	318	2	US-09-107-532A-6446	Sequence 6446, App
705	27	57.4	175	2	US-09-583-110-4664	Sequence 4664, App	778	27	57.4	318	2	US-09-489-039A-11183	Sequence 11183, A
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712	27	57.4	189	2	US-09-123-492A-1	Sequence 1, App1	785	27	57.4	356	1	US-08-681-151-1	Sequence 1, App1
713	27	57.4	191	2	US-09-482-273-161	Sequence 161, App	786	27	57.4	362	2	US-09-543-681A-4401	Sequence 4401, App
714	27	57.4	193	2	US-09-902-540-11788	Sequence 11788, A	787	27	57.4	362	2	US-09-328-352-5345	Sequence 5345, App
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716	27	57.4	197	2	US-09-270-767-60364	Sequence 60364, A	789	27	57.4	377	2	US-09-543-681A-7473	Sequence 7473, App
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729	27	57.4	225	2	US-09-489-039A-13977	Sequence 13977, A	802	27	57.4	389	2	US-09-746-801A-23	Sequence 23, App1
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737	27	57.4	242	2	US-09-959-392-34	Sequence 34, App1	810	27	57.4	390	2	US-09-450-790A-15	Sequence 15, App1
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739	27	57.4	248	2	US-09-270-767-42758	Sequence 42758, A	812	27	57.4	390	2	US-09-371-705-4	Sequence 4, App1
740	27	57.4	249	2	US-09-252-991A-21894	Sequence 21894, A	813	27	57.4	390	2	US-09-826-509-427	Sequence 427, App
741	27	57.4	250	2	US-09-543-681A-4487	Sequence 4487, App	814	27	57.4	390	4	PCT-US93-00149-6	Sequence 6, App1
742	27	57.4	252	2	US-09-489-039A-14081	Sequence 14081, A	815	27	57.4	396	2	US-09-868-352-29	Sequence 29, App1
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749	27	57.4	264	2	US-10-101-464A-959	Sequence 959, App	822	27	57.4	407	2	US-09-902-540-15756	Sequence 15756, A
750	27	57.4	266	2	US-09-347-819-10	Sequence 10, App1	823	27	57.4	418	2	US-09-489-039A-7781	Sequence 7781, App
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753	27	57.4	280	2	US-09-949-016-11646	Sequence 11646, A	826	27	57.4	430	1	US-08-809-740A-2	Sequence 2, App1
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755	27	57.4	286	2	US-09-205-258-404	Sequence 404, App	828	27	57.4	436	2	US-09-583-110-4729	Sequence 4729, App
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757	27	57.4	286	2	US-10-004-860-404	Sequence 404, App	830	27	57.4	437	2	US-09-991-181-355	Sequence 355, App

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833	27	57.4	437	2	US-09-997-333-355	Sequence 355, App	906	27	57.4	625	2	US-09-871-291-15	Sequence 15, Appl
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842	27	57.4	463	2	US-09-489-039A-9074	Sequence 9074, A	916	27	57.4	700	2	US-09-684-708A-2	Sequence 2, Appl
843	27	57.4	467	2	US-09-252-991A-30784	Sequence 30784, A	917	27	57.4	705	2	US-09-328-352-4457	Sequence 4457, Ap
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845	27	57.4	475	2	US-09-949-016-6317	Sequence 6317, Ap	919	27	57.4	708	1	US-08-308-881-2	Sequence 2, Appl
846	27	57.4	476	2	US-09-489-039A-8120	Sequence 8120, Ap	920	27	57.4	708	1	US-09-058-263-2	Sequence 2, Appl
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851	27	57.4	482	2	US-09-328-352-7784	Sequence 7784, Ap	925	27	57.4	709	2	US-09-538-092-161	Sequence 609, Ap
852	27	57.4	487	2	US-09-949-016-11205	Sequence 11205, A	926	27	57.4	709	2	US-09-949-016-6809	Sequence 6809, Ap
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861	27	57.4	502	2	US-09-328-352-6968	Sequence 6968, Ap	935	27	57.4	750	2	US-09-508-824-12	Sequence 15931, A
862	27	57.4	503	2	US-09-248-796A-16650	Sequence 16650, A	936	27	57.4	768	2	US-09-902-540-15931	Sequence 8047, Ap
863	27	57.4	509	2	US-09-955-732A-14	Sequence 14, Appl	937	27	57.4	772	2	US-09-543-681A-8047	Sequence 18846, A
864	27	57.4	509	2	US-09-775-925-6	Sequence 6, Appl	938	27	57.4	801	2	US-09-252-991A-18846	Sequence 22729, A
865	27	57.4	513	2	US-09-605-703B-402	Sequence 2402, Ap	939	27	57.4	801	2	US-09-252-991A-3609	Sequence 43609, A
866	27	57.4	514	2	US-09-468-211A-3	Sequence 3, Appl	940	27	57.4	845	2	US-09-270-767-13609	Sequence 100, App
867	27	57.4	515	2	US-09-489-039A-8208	Sequence 8208, Ap	941	27	57.4	869	2	US-10-314-068A-100	Sequence 33057, A
868	27	57.4	521	2	US-09-543-681A-6857	Sequence 6857, Ap	942	27	57.4	871	2	US-09-252-991A-33057	Sequence 3, Appl
869	27	57.4	524	2	US-09-248-796A-20256	Sequence 20256, A	943	27	57.4	890	2	US-10-028-056-3	Sequence 6, Appl
870	27	57.4	525	2	US-09-248-796A-15927	Sequence 15927, A	944	27	57.4	891	2	US-08-825-558-6	Sequence 3, Appl
871	27	57.4	527	2	US-09-252-991A-17545	Sequence 17545, A	945	27	57.4	918	2	US-09-312-611-6	Sequence 3, Appl
872	27	57.4	533	2	US-09-347-819-2	Sequence 2, Appl	946	27	57.4	918	2	US-09-853-1808-3	Sequence 333, App
873	27	57.4	535	2	US-09-949-016-6847	Sequence 6847, Ap	947	27	57.4	918	2	US-09-949-002-333	Sequence 526, App
874	27	57.4	540	2	US-09-134-000C-7745	Sequence 3745, Ap	948	27	57.4	937	2	US-09-949-002-536	Sequence 12, Appl
875	27	57.4	548	2	US-09-543-681A-7327	Sequence 7327, Ap	949	27	57.4	1006	2	US-10-415-147-12	Sequence 31338, A
876	27	57.4	554	2	US-09-248-796A-19643	Sequence 19643, A	950	27	57.4	1014	2	US-09-252-991A-30591	Sequence 2, Appl
877	27	57.4	556	2	US-09-328-352-4687	Sequence 4687, Ap	951	27	57.4	1042	2	US-09-959-392-2	Sequence 30591, A
878	27	57.4	556	2	US-09-270-767-56952	Sequence 56952, A	952	27	57.4	1052	2	US-09-949-016-6535	Sequence 6535, Ap
879	27	57.4	556	2	US-09-949-016-7027	Sequence 7027, Ap	953	27	57.4	1194	2	US-09-949-016-6535	Sequence 6535, Ap
880	27	57.4	556	2	US-09-902-540-13058	Sequence 13058, A	954	27	57.4	1195	2	US-10-042-810-2	Sequence 2, Appl
881	27	57.4	557	2	US-09-252-991A-18216	Sequence 18216, A	955	27	57.4	1248	2	US-10-042-810-2	Sequence 4, Appl
882	27	57.4	565	2	US-09-949-016-10036	Sequence 10036, A	956	27	57.4	1278	2	US-09-975-413A-10	Sequence 4, Appl
883	27	57.4	572	1	US-08-419-652-5	Sequence 5, Appl	957	27	57.4	1309	2	US-09-975-413A-10	Sequence 4, Appl
884	27	57.4	572	1	US-09-032-315-7	Sequence 7, Appl	958	27	57.4	1416	1	US-08-061-465-4	Sequence 11331, A
885	27	57.4	572	1	US-08-993-318A-7	Sequence 7, Appl	959	27	57.4	1716	2	US-09-949-016-11331	Sequence 8902, Ap
886	27	57.4	572	2	US-09-399-886-7	Sequence 7, Appl	960	27	57.4	1878	2	US-09-949-016-8902	Sequence 8903, Ap
887	27	57.4	572	2	US-09-396-260-7	Sequence 7, Appl	961	27	57.4	1912	2	US-09-949-016-10490	Sequence 10490, A
888	27	57.4	572	2	US-09-576-281-7	Sequence 7, Appl	962	27	57.4	1940	1	US-09-077-985-34	Sequence 30, Appl
889	27	57.4	574	2	US-09-248-796A-70154	Sequence 20154, A	963	27	57.4	1940	2	US-08-644-271-30	Sequence 34, Appl
890	27	57.4	585	2	US-09-270-767-44867	Sequence 44867, A	964	27	57.4	1940	2	US-10-016-283-34	Sequence 34, Appl
891	27	57.4	589	2	US-09-252-991A-24834	Sequence 24834, A	965	27	57.4	2189	2	US-10-172-502-2	Sequence 2, Appl
892	27	57.4	596	2	US-09-252-991A-26031	Sequence 26031, A	966	27	57.4	2386	2	US-09-029-047C-4	Sequence 4, Appl
893	27	57.4	598	2	US-09-270-767-46086	Sequence 46086, A	967	27	57.4	2482	2	US-09-252-991A-16967	Sequence 16967, A
894	27	57.4	599	2	US-09-746-801A-59	Sequence 59, Appl	968	27	57.4	2595	2	US-09-036-987A-2	Sequence 2, Appl
895	27	57.4	599	2	US-10-719-885-59	Sequence 59, Appl	969	27	57.4	2595	2	US-09-370-700-2	Sequence 2, Appl
896	27	57.4	605	2	US-09-949-016-9305	Sequence 9305, Ap	970	27	57.4	2595	2	US-09-603-207-2	Sequence 2, Appl
897	27	57.4	616	2	US-09-608-790-1	Sequence 1, Appl	971	27	57.4	2595	2	US-09-477-451-4	Sequence 4, Appl
898	27	57.4	619	2	US-10-037-417-34	Sequence 34, Appl	972	27	57.4	3177	1	US-10-037-417-136	Sequence 136, App
899	27	57.4	625	2	US-08-996-139-15	Sequence 15, Appl	973	27	56.4	217	2	US-09-489-039A-7277	Sequence 7277, Ap
900	27	57.4	625	2	US-08-995-659-15	Sequence 15, Appl	974	27	56.4	339	2	US-09-489-039A-7277	Sequence 96, Appl
901	27	57.4	625	2	US-09-215-649A-15	Sequence 15, Appl	975	27	55.3	9	2	US-08-660-092-96	Sequence 103, App
902	27	57.4	625	2	US-09-577-780-15	Sequence 15, Appl	976	27	55.3	26	2	US-08-660-092-103	
903	27	57.4	625	2	US-09-577-800-15	Sequence 15, Appl	976	27	55.3	26	2	US-08-660-092-103	



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977 26 55.3 9 2 US-09-160-513-96 Sequence 96, Appl
978 26 55.3 9 2 US-09-160-513-103 Sequence 103, Appl
979 26 55.3 16 2 US-09-641-808-25 Sequence 25, Appl
980 26 55.3 29 1 US-08-934-915-66 Sequence 66, Appl
981 26 55.3 32 1 US-08-595-668C-43 Sequence 43, Appl
982 26 55.3 32 2 US-09-139-819A-43 Sequence 43, Appl
983 26 55.3 32 2 US-09-750-913-43 Sequence 43, Appl
984 26 55.3 34 1 US-08-997-080-59 Sequence 59, Appl
985 26 55.3 34 1 US-08-997-362-59 Sequence 59, Appl
986 26 55.3 34 2 US-08-873-970-59 Sequence 59, Appl
987 26 55.3 34 2 US-09-095-855-59 Sequence 59, Appl
988 26 55.3 34 2 US-09-324-542-59 Sequence 59, Appl
989 26 55.3 34 2 US-09-205-426-59 Sequence 59, Appl
990 26 55.3 39 2 US-09-902-540-12669 Sequence 12669, A
991 26 55.3 45 2 US-09-471-276-1331 Sequence 1331, Ap
992 26 55.3 68 2 US-09-910-009A-155 Sequence 155, App
993 26 55.3 70 2 US-09-910-009A-153 Sequence 153, App
994 26 55.3 71 2 US-09-910-009A-198 Sequence 198, App
995 26 55.3 71 2 US-09-248-796A-23335 Sequence 2335, A
996 26 55.3 71 2 US-09-832-129-46 Sequence 46, Appl
997 26 55.3 72 2 US-09-270-767-58481 Sequence 58481, A
998 26 55.3 74 1 US-08-997-080-110 Sequence 110, App
999 26 55.3 74 1 US-08-997-362-110 Sequence 110, App
1000 26 55.3 74 2 US-09-095-855-110 Sequence 110, App

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## ALIGNMENTS

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RESULT 1
US-08-948-378A-2
; Sequence 2, Application US/08948378A
; Patent No. 6013258
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicx, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM
; TITLE OF INVENTION: THE HPV E7 PROTEIN
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/948,378A
; FILING DATE: 09-OCT-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide

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US-08-948-378A-2
Query Match 91.5%; Score 43; DB 2; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 TLGIIVAPIC 9
Db 1 TLGIIVPIC 9

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RESULT 2
US-09-169-425C-2
; Sequence 2, Application US/09169425C
; Patent No. 6183746
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicx, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/169,425C
; FILING DATE: 09-OCT-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/061,657
; FILING DATE: 09-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-09-169-425C-2
Query Match 91.5%; Score 43; DB 2; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 TLGIIVAPIC 9
Db 1 TLGIIVPIC 9

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RESULT 3
US-08-197-484-68
; Sequence 68, Application US/08197484
; Patent No. 6419931
; GENERAL INFORMATION:
; APPLICANT: VITTELLO, Maria A.
; APPLICANT: CHESTNUT, Robert W.

```



APPLICANT: SETTE, Alessandro D.  
APPLICANT: CELIS, Eteban  
APPLICANT: GRAY, Howard  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourlie and Crew  
STREET: Stewart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/197,484  
FILING DATE: 16-FEB-1994  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (206) 623-6793  
INFORMATION FOR SEQ ID NO: 68:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-197-484-68

Query Match 91.5%; Score 43; DB 2; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIYAPIC 9  
Db 1 TLGIYCPIC 9

RESULT 4  
US-09-759-960-2  
Sequence 2, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.

STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-2

Query Match 91.5%; Score 43; DB 2; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIYAPIC 9  
Db 1 TLGIYCPIC 9

RESULT 5  
PCT-US95-02121-68  
Sequence 68, Application PC/TUS9502121  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/02121  
FILING DATE: 16-FEB-1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/197,484  
FILING DATE: 16-FEB-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4PC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 68:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
PCT-US95-02121-68

Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 6  
US-09-000-003A-9  
Sequence 9, Application US/09000003A  
Patent No. 6652850  
GENERAL INFORMATION:  
APPLICANT: Philip, Ramla  
Lebkowski, Jane S.  
TITLE OF INVENTION: ADENO-ASSOCIATED VIRAL LIPOSOMES AND  
THEIR USE IN TRANSFECTING DENDRITIC CELLS TO STIMULATE  
SPECIFIC IMMUNITY  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Alexis Barron, Esq.  
STREET: Suite 2600 Aramark Tower, 1101 Market Street  
CITY: Philadelphia  
STATE: PA  
COUNTRY: United States of America  
ZIP: 19107  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/000.003A  
FILING DATE: 15-Jun-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/12012  
FILING DATE: 19-JUL-1996  
APPLICATION NUMBER: US 60/001.312  
FILING DATE: 21-JUL-1995  
APPLICATION NUMBER: US 60/007.184  
FILING DATE: 01-NOV-1995  
APPLICATION NUMBER: US 08/566.286  
FILING DATE: 01-DEC-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Barron, Alexis  
REGISTRATION NUMBER: 22,702  
REFERENCE/DOCKET NUMBER: 20,846-K USA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 923-2189  
TELEFAX: (215) 923-4466  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
US-09-000-003A-9

Query Match 91.5%; Score 43; DB 2; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.048;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

RESULT 7  
US-09-405-986A-10  
Sequence 10, Application US/09405986A  
Patent No. 6676946  
GENERAL INFORMATION:  
APPLICANT: Bay, Sylvie  
APPLICANT: Cantacuzene, Daniele  
APPLICANT: Leclerc, Claude  
APPLICANT: Le-Man, Richard  
TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPEPTIDE CARBOHYDRATE,  
TITLE OF INVENTION: VACCINE COMPRISING THE SAME AND USE THEREOF  
FILE REFERENCE: 102.166A-1  
CURRENT APPLICATION NUMBER: US/09/405.986A  
CURRENT FILING DATE: 2002-06-11  
PRIOR APPLICATION NUMBER: US 09/049,847  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: US 60/041,726  
PRIOR FILING DATE: 1997-03-27  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 10  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
FEATURE:  
NAME/KEY: MISC FEATURE  
OTHER INFORMATION: HPV16 E7 PEPTIDE  
US-09-405-986A-10

Query Match 91.5%; Score 43; DB 2; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.048;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

RESULT 8  
US-09-169-425C-31  
Sequence 31, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Other  
LOCATION: 1...1  
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu  
US-09-169-425C-31

Query Match 91.5%; Score 43; DB 2; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.053;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

RESULT 9  
US-09-169-425C-33  
Sequence 33, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-33

Query Match 91.5%; Score 43; DB 2; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.053;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

RESULT 10  
US-09-759-960-31  
Sequence 31, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Other  
LOCATION: 1...1  
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu  
US-09-759-960-31

Query Match 91.5%; Score 43; DB 2; Length 11;

Best Local Similarity 88.9%; Pred. No. 0.053; Indels 0; Gaps 0;  
Matches 8; Conservative 0; Mismatches 1;

Qy 1 TLGIAPIC 9  
| | | | |  
Db 3 TLGIAPIC 11

## RESULT 11

US-09-759-960-33  
; Sequence 33, Application US/09759960  
; Patent No. 6583704  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; TITLE OF INVENTION: PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 33:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-09-759-960-33

Query Match 91.5%; Score 43; DB 2; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.053;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
| | | | |  
Db 3 TLGIAPIC 11

## RESULT 12

US-08-948-378A-16  
; Sequence 16, Application US/08948378A  
; Patent No. 6013258  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM

; TITLE OF INVENTION: THE HPV E7 PROTEIN  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/948,378A  
; FILING DATE: 09-OCT-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 12 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-948-378A-16

Query Match 91.5%; Score 43; DB 2; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.058;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
| | | | |  
Db 4 TLGIAPIC 12

## RESULT 13

US-09-169-425C-16  
; Sequence 16, Application US/09169425C  
; Patent No. 6183746  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; TITLE OF INVENTION: PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/169,425C  
; FILING DATE: 09-OCT-1998  
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraaser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-16

Query Match 91.5%; Score 43; DB 2; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.058;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIYAPIC 9  
Db 4 TLGIYCPIC 12

## RESULT 14

US-09-759-960-16  
Sequence 16, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraaser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-16

Query Match 91.5%; Score 43; DB 2; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.058;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIYAPIC 9  
Db 4 TLGIYCPIC 12

## RESULT 15

US-08-948-378A-3  
Sequence 3, Application US/08948378A  
Patent No. 6013258  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/948,378A  
FILING DATE: 09-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraaser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-948-378A-3

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIYAPIC 9  
Db 5 TLGIYCPIC 13

## RESULT 16

US-08-948-378A-4  
Sequence 4, Application US/08948378A  
Patent No. 6013258  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn

;; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
;; TITLE OF INVENTION: THE HPV E7 PROTEIN  
;; NUMBER OF SEQUENCES: 19  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Fish & Richardson, P.C.  
;; STREET: 225 Franklin Street  
;; CITY: Boston  
;; STATE: MA  
;; COUNTRY: US  
;; ZIP: 02110-2804  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Diskette  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: Windows95  
;; SOFTWARE: FastSeq for Windows Version 2.0  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/948,378A  
;; FILING DATE: 09-OCT-1997  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Fraser, Janis K.  
;; REGISTRATION NUMBER: 34,819  
;; REFERENCE/DOCKET NUMBER: 08191/004001  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 617-542-5070  
;; TELEFAX: 617-543-8906  
;; TELEX: 200154  
;; INFORMATION FOR SEQ ID NO: 4:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 13 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
US-08-948-378A-4

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 17  
US-08-948-378A-19  
;; Sequence 19, Application US/08948378A  
;; Patent No. 6013258  
;; GENERAL INFORMATION:  
;; APPLICANT: Urban, Robert G.  
;; APPLICANT: Chicz, Roman M.  
;; APPLICANT: Collins, Edward J.  
;; APPLICANT: Hedley, Mary Lynn  
;; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
;; TITLE OF INVENTION: THE HPV E7 PROTEIN  
;; NUMBER OF SEQUENCES: 19  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Fish & Richardson, P.C.  
;; STREET: 225 Franklin Street  
;; CITY: Boston  
;; STATE: MA  
;; COUNTRY: US  
;; ZIP: 02110-2804  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Diskette  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: Windows95  
;; SOFTWARE: FastSeq for Windows Version 2.0  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/948,378A  
;; FILING DATE: 09-OCT-1997

;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER:  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Fraser, Janis K.  
;; REGISTRATION NUMBER: 34,819  
;; REFERENCE/DOCKET NUMBER: 08191/004001  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 617-542-5070  
;; TELEFAX: 617-543-8906  
;; TELEX: 200154  
;; INFORMATION FOR SEQ ID NO: 19:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 13 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
;; FEATURE:  
;; NAME/KEY: Coding Sequence  
;; LOCATION: 1...1  
;; OTHER INFORMATION: where X at position 1 is Ala, Ser, Arg, Lys,  
;; OTHER INFORMATION: Gly, Gln, Asp, or Gln  
US-08-948-378A-19

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 18  
US-08-159-339A-1167  
;; Sequence 1167, Application US/08159339A  
;; Patent No. 6037135  
;; GENERAL INFORMATION:  
;; APPLICANT: Kubo, Ralph T.  
;; APPLICANT: Grey, Howard M.  
;; APPLICANT: Sette, Alessandro  
;; APPLICANT: Celis, Esben  
;; TITLE OF INVENTION: HLA Binding peptides and Their  
;; TITLE OF INVENTION: Uses  
;; NUMBER OF SEQUENCES: 1254  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Townsend and Townsend and Crew LLP  
;; STREET: Two Embarcadero Center, Eighth Floor  
;; CITY: San Francisco  
;; STATE: CA  
;; COUNTRY: USA  
;; ZIP: 94111-3834  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Diskette  
;; COMPUTER: IBM Compatible  
;; OPERATING SYSTEM: DOS  
;; SOFTWARE: FastSeq for Windows Version 2.0  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/159,339A  
;; FILING DATE: 29-NOV-1993  
;; CLASSIFICATION: 424  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/926,666  
;; FILING DATE: 07-AUG-1992  
;; APPLICATION NUMBER: US 08/027,746  
;; FILING DATE: 05-MAR-1993  
;; APPLICATION NUMBER: US 08/103,396  
;; FILING DATE: 06-AUG-1993  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Weber, Ellen Lauver  
;; REGISTRATION NUMBER: 32,762  
;; REFERENCE/DOCKET NUMBER: 018623-005030US  
;; TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1167:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1167

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

RESULT 19  
US-09-169-425C-3  
Sequence 3, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-3

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10

Db 5 TLGIAPIC 13

RESULT 20  
US-09-169-425C-4  
Sequence 4, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-4

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 21  
US-09-169-425C-19  
Sequence 19, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street

```

CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 09191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Other
LOCATION: 1...1
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser
OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu
US-09-169-425C-19

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? APPLICATION NUMBER: 09/169,425
? FILING DATE:
? ATTORNEY/AGENT INFORMATION:
? NAME: Fraser, Janis K.
? REGISTRATION NUMBER: 34,819
? REFERENCE/DOCKET NUMBER: 08191/004002
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 617-542-5070
? TELEFAX: 617-543-8906
? TELEX: 200154
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 13 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: peptide
? US-09-759-960-3

Query Match 91.5%; Score 43; DB 2; Length 13;
Best Local Similarity 88.9%; Pred. No. 0.064;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0.

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RESULT 22
US-09-759-960-3
Sequence 3, Application US/09755960
Patent No. 6582704
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chiciz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FR
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSSEE: Fish & Richardson, P. C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:

```



Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 24

US-09-759-960-19  
; Sequence 19, Application US/09759960

; Patent No. 6582704  
; GENERAL INFORMATION:

; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicx, Roman M.

; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn

; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESS:  
; ADDRESS: Fish & Richardson, P.C.

; STREET: 225 Franklin Street  
; CITY: Boston

; STATE: MA  
; COUNTRY: US

; ZIP: 02110-2804  
; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible

; OPERATING SYSTEM: Windows95  
; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960

; FILING DATE:  
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/169,425  
; FILING DATE:

; ATTORNEY/AGENT INFORMATION:  
; NAME: Frazer, Janis K.

; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002

; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070

; TELEFAX: 617-543-8906  
; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:

; LENGTH: 13 amino acids  
; TYPE: amino acid

; TOPOLOGY: linear  
; MOLECULE TYPE: peptide

; FEATURE:  
; NAME/KEY: Other

; LOCATION: 1...1  
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,

; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu  
; US-09-759-960-19

Query Match 91.5%; Score 43; DB 2; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.064;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 25

US-09-169-425C-32  
; Sequence 32, Application US/09169425C

; Patent No. 6183746

; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.

; APPLICANT: Chicx, Roman M.  
; APPLICANT: Collins, Edward J.

; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7

; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:

; ADDRESS: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street

; CITY: Boston  
; STATE: MA

; COUNTRY: US  
; ZIP: 02110-2804

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95

; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/169,425C  
; FILING DATE: 09-OCT-1998

; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/061,657

; FILING DATE: 09-OCT-1997  
; ATTORNEY/AGENT INFORMATION:

; NAME: Frazer, Janis K.  
; REGISTRATION NUMBER: 34,819

; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906

; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 32:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 14 amino acids

; TYPE: amino acid  
; TOPOLOGY: linear

; MOLECULE TYPE: peptide  
; US-09-169-425C-32

Query Match 91.5%; Score 43; DB 2; Length 14;  
Best Local Similarity 88.9%; Pred. No. 0.069;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

## RESULT 26

US-09-759-960-32  
; Sequence 32, Application US/09759960

; Patent No. 6582704  
; GENERAL INFORMATION:

; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicx, Roman M.

; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn

; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESS:  
; ADDRESS: Fish & Richardson, P.C.

; STREET: 225 Franklin Street  
; CITY: Boston

; STATE: MA  
; COUNTRY: US

; ZIP: 02110-2804  
; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible

OPERATING SYSTEM: windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 32:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 14 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-32

Query Match 91.5%; Score 43; DB 2; Length 14;  
Best Local Similarity 88.9%; Pred. No. 0.069;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 3 TLGIIVCPIC 11

RESULT 27  
US-08-159-339A-1168  
Sequence 1168, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1168:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1168

Query Match 91.5%; Score 43; DB 2; Length 15;  
Best Local Similarity 88.9%; Pred. No. 0.074;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 4 TLGIIVCPIC 12

RESULT 28  
US-09-169-425C-25  
Sequence 25, Application US/09169425C  
Patent No. 6183746  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiczy, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 25:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-169-425C-25

Query Match 91.5%; Score 43; DB 2; Length 16;  
Best Local Similarity 88.9%; Pred. No. 0.08;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 1 TLGIIVCPIC 11

Db 5 TLGIVCPC 13

## RESULT 29

US-09-759-960-25  
Sequence 25, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759, 960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 25:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-25

Query Match 91.5%; Score 43; DB 2; Length 16;  
Best Local Similarity 88.9%; Pred. No. 0.08;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 5 TLGIVCPC 13

RESULT 30  
US-09-980-523A-18  
Sequence 18, Application US/09980523A  
Patent No. 6783763  
GENERAL INFORMATION:  
APPLICANT: CHOPPIN, JEANNINE  
APPLICANT: BOURGAULT VILADA, ISABELLE  
APPLICANT: GUILLET, JEAN-GERARD  
APPLICANT: CONNAN, FRANCES  
APPLICANT: FERRIES, ESTELLE  
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
FILE REFERENCE: WO/1 AO INS  
CURRENT APPLICATION NUMBER: US/09/980, 523A

CURRENT FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: PCT/FR00/01513

PRIOR FILING DATE: 2000-05-31  
PRIOR APPLICATION NUMBER: FR 99/07012  
PRIOR FILING DATE: 1999-06-03  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 18  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Human Papillomavirus  
US-09-980-523A-18

Query Match 91.5%; Score 43; DB 2; Length 19;  
Best Local Similarity 88.9%; Pred. No. 0.096;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 8 TLGIVCPC 16

## RESULT 31

US-08-075-541D-50  
Sequence 50, Application US/08075541D  
Patent No. 6183745  
GENERAL INFORMATION:  
APPLICANT: TINDLE, ROBERT  
APPLICANT: FERNANDO, GERMAIN  
APPLICANT: FRAZER, IAN  
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND  
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN  
NUMBER OF SEQUENCES: 56  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.  
STREET: 1601 MARKET STREET, 36TH FLOOR  
CITY: PHILADELPHIA  
STATE: PENNSYLVANIA  
COUNTRY: USA  
ZIP: 19103-2398  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/075, 541D  
FILING DATE: 10-JUN-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: AU pk 3876  
FILING DATE: 12-DEC-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/AU91/00575  
FILING DATE: 12-DEC-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: NADEL, ALAN S  
REGISTRATION NUMBER: 27,363  
REFERENCE/DOCKET NUMBER: 8795-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 215-567-2020  
TELEFAX: 215-567-2991  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-075-541D-50

Query Match 91.5%; Score 43; DB 2; Length 20;  
Best Local Similarity 88.9%; Pred. No. 0.1;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
| | | | |  
Db 12 TLGIIVCPIC 20

RESULT 32  
US-08-934-915-50  
; Sequence 50, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEI-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN  
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR  
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/934,915  
; FILING DATE: 22-SEP-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/949,836  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: LOUISE A. FOUTCH  
; REGISTRATION NUMBER: 37,133  
; REFERENCE/DOCKET NUMBER: 1946.6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 813-538-3800  
; TELEFAX: 813-538-3820  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 50:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-934-915-50

Query Match 91.5%; Score 43; DB 1; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.11;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
| | | | |  
Db 9 TLGIIVCPIC 17

RESULT 33  
US-08-934-915-157  
; Sequence 157, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEI-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN

; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR  
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/934,915  
; FILING DATE: 22-SEP-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/949,836  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: LOUISE A. FOUTCH  
; REGISTRATION NUMBER: 37,133  
; REFERENCE/DOCKET NUMBER: 1946.6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 813-538-3800  
; TELEFAX: 813-538-3820  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 157:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-934-915-157

Query Match 91.5%; Score 43; DB 1; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.11;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
| | | | |  
Db 9 TLGIIVCPIC 17

RESULT 34  
US-09-980-177A-76  
; Sequence 76, Application US/09980177A  
; Patent No. 6838084  
; GENERAL INFORMATION:  
; APPLICANT: Jochmus, Ingrid  
; APPLICANT: Mieland, John  
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the  
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and  
; TITLE OF INVENTION: Therapy  
; FILE REFERENCE: 50125/036001  
; CURRENT APPLICATION NUMBER: US/09/980,177A  
; CURRENT FILING DATE: 2001-11-29  
; PRIOR APPLICATION NUMBER: PCT/EP00/05006  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: DE 19925199.1  
; PRIOR FILING DATE: 1999-06-01  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 76  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-980-177A-76

Query Match 91.5%; Score 43; DB 2; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.11;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
Db 9 TLGIIVCPIC 17

## RESULT 35

US-08-075-541D-40  
; Sequence 40, Application US/08075541D  
; Patent No. 6183745  
; GENERAL INFORMATION:  
; APPLICANT: TINDLE, ROBERT  
; APPLICANT: FERNANDO, GERMAIN  
; APPLICANT: FRAZER, IAN  
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND  
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN  
; NUMBER OF SEQUENCES: 56  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.  
; STREET: 1601 MARKET STREET, 36TH FLOOR  
; CITY: PHILADELPHIA  
; STATE: PENNSYLVANIA  
; COUNTRY: USA  
; ZIP: 19103-2398  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/075.541D  
; FILING DATE: 10-JUN-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: AU pk 3876  
; FILING DATE: 12-DEC-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: pct/au91/00575  
; FILING DATE: 12-DEC-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: NADEL, ALAN S  
; REGISTRATION NUMBER: 27,363  
; REFERENCE/DOCKET NUMBER: 8795-4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-567-2020  
; TELEFAX: 215-567-2991  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 26 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-075-541D-40

Query Match 91.5%; Score 43; DB 2; Length 26;  
Best Local Similarity 88.9%; Pred. No. 0.13;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
Db 15 TLGIIVCPIC 23

RESULT 36  
US-09-486-394-5  
; Sequence 5, Application US/09486394  
; Patent No. 6478749  
; GENERAL INFORMATION:  
; APPLICANT: Hopfl, Reinhard

; TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method  
; FILE REFERENCE: 032929-001  
; CURRENT APPLICATION NUMBER: US/09/486.394  
; CURRENT FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/04773  
; PRIOR FILING DATE: 1998-07-30  
; PRIOR APPLICATION NUMBER: DE 197 37 409.3  
; PRIOR FILING DATE: 1997-08-27  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 5  
; LENGTH: 28  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
; FEATURE:  
; NAME/KEY: PEPTIDE  
; LOCATION: (1)..(28)  
; OTHER INFORMATION: E7 peptide.  
US-09-486-394-5

Query Match 91.5%; Score 43; DB 2; Length 28;  
Best Local Similarity 88.9%; Pred. No. 0.15;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIIVAPIC 9  
Db 16 TLGIIVCPIC 24

## RESULT 37

US-08-934-915-54  
; Sequence 54, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEE-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN  
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR  
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/934.915  
; FILING DATE: 22-SEP-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/949, 836  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: LOUISE A. Foutch  
; REGISTRATION NUMBER: 37,133  
; REFERENCE/DOCKET NUMBER: 1946.6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 813-538-3800  
; TELEFAX: 813-538-3820  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 54:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 30 amino acids  
; TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-934-915-54

Query Match 91.5%; Score 43; DB 1; Length 30;  
Best Local Similarity 88.9%; Pred. No. 0.16;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 18 TLGIVCPIC 26

RESULT 38  
US-08-948-378A-6  
Sequence 6, Application US/08948378A  
Patent No. 6013258  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM  
THE HPV E7 PROTEIN  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: Windows95  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/948,378A  
FILING DATE: 09-OCT-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 38 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-08-948-378A-6

Query Match 91.5%; Score 43; DB 2; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.2;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 30 TLGIVCPIC 38

RESULT 39  
US-09-169-425C-6  
Sequence 6, Application US/09169425C  
Patent No. 6183746

GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: Windows95  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 38 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-09-169-425C-6

Query Match 91.5%; Score 43; DB 2; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.2;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 30 TLGIVCPIC 38

RESULT 40  
US-09-759-960-6  
Sequence 6, Application US/09759960  
Patent No. 6582704  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette

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COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,960
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/169,425
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-759-960-6

Query Match      91.5%; Score 43; DB 2; Length 38;
Best Local Similarity 88.9%; Pred. No. 0.2;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      30 TLGIVCPC 38

RESULT 41
US-08-406-248-6
Sequence 6, Application US/08406248
Patent No. 5736318
GENERAL INFORMATION:
APPLICANT: Munger, Karl
APPLICANT: Jones, D. Leanne
TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
TITLE OF INVENTION: TRANSFORMED CELLS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSER: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
STREET: 200 State Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/406,248
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: McDanielis, Patricia A.
REGISTRATION NUMBER: 33,194
REFERENCE/DOCKET NUMBER: HA2-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-330-1300
TELEFAX: 617-330-1311
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
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MOLECULE TYPE: protein
US-08-406-248-6
Query Match      91.5%; Score 43; DB 1; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      86 TLGIVCPC 94

RESULT 42
US-08-075-541D-42
Sequence 42, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSER: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match      91.5%; Score 43; DB 2; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      86 TLGIVCPC 94

RESULT 43
US-09-382-616A-1
Sequence 1, Application US/09382616A
```

Patent No. 6200746  
GENERAL INFORMATION:  
APPLICANT: Fisher, Christopher  
APPLICANT: He, Manxia  
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents  
FILE REFERENCE: 28341/6216  
CURRENT APPLICATION NUMBER: US/09/382,616A  
CURRENT FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: 09/382,616  
PRIOR FILING DATE: 1999-08-25  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 98  
TYPE: PRT  
ORGANISM: Papillomavirus sv1v1agi  
US-09-382-616A-1

Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
DB 86 TLGIAPIC 94

RESULT 44  
US-08-944-368A-4  
Sequence 4, Application US/08944368A  
Patent No. 6228368  
GENERAL INFORMATION:  
APPLICANT: Giesman, et al.  
TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine  
TITLE OF INVENTION: Formulations and Methods of Use  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &  
ADDRESSEE: Borun  
STREET: 233 South Wacker Drive, 6300 Sears Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/944,368A  
FILING DATE:  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Williams Jr., Joseph A.  
REGISTRATION NUMBER: 38,659  
REFERENCE/DOCKET NUMBER: 27013/34028  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-474-6300  
TELEFAX: 312-474-0448  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 98 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-944-368A-4

Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9

DB 86 TLGIAPIC 94

RESULT 45  
US-09-820-764-4  
Sequence 4, Application US/09820764  
Patent No. 635266  
GENERAL INFORMATION:  
APPLICANT: BURGER, Alexander  
APPLICANT: HALLER, Michael  
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE  
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/820,764  
FILING DATE: 30-Mar-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/026,896  
FILING DATE: 20-FEB-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Sandercock, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 37067/102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 98 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-820-764-4

Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
DB 86 TLGIAPIC 94

RESULT 46  
US-09-613-303-8  
Sequence 8, Application US/09613303  
Patent No. 6495347  
GENERAL INFORMATION:  
APPLICANT: Siegel, Marvin  
APPLICANT: Chu, N. Randall  
APPLICANT: Mizen, Lee A.  
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO  
FILE REFERENCE: 12071/002001  
CURRENT APPLICATION NUMBER: US/09/613,303  
CURRENT FILING DATE: 2000-07-10  
PRIOR APPLICATION NUMBER: US 60/143,757  
PRIOR FILING DATE: 1999-07-08  
NUMBER OF SEQ ID NOS: 55



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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TLGIAPIC 9
      |||||
Db      86 TLGIAPIC 94

RESULT 47
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 650641
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/09/566,420
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TLGIAPIC 9
      |||||
Db      86 TLGIAPIC 94

RESULT 48
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-NO. 6562351-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TLGIAPIC 9
      |||||
Db      86 TLGIAPIC 94

RESULT 49
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sy1v1agi
US-09-728-466-1

Query Match      91.5%  Score 43; DB 2; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.56;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TLGIAPIC 9
      |||||
Db      86 TLGIAPIC 94

RESULT 50
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
```

STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/824,017  
FILING DATE: 03-Apr-2001  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/026,896  
FILING DATE: 1998-02-20  
ATTORNEY/AGENT INFORMATION:  
NAME: Sandercock, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 37067/102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 98 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-824-017-4  
Query Match 91.5%; Score 43; DB 2; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.56;  
Matches 8; Conservative 0; Mismatches 1; Indels 0;  
QY 1 TLGIVAPIC 9  
Db 86 TLGIVCPIC 94  
Search completed: May 5, 2006, 03:12:54  
Job time : 24.7 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: May 5, 2006, 07:56:48 ; Search time 56 Seconds  
(without alignments)

67.151 Million cell updates/sec

Title: US-08-170-344-20

Perfect score: 47

Sequence: 1 TLGIVAPIC 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues  
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
1: /cgcn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgcn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
3: /cgcn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgcn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgcn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgcn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	91.5	9	3	US-09-759-960-2
2	43	91.5	9	3	US-09-909-460-111
3	43	91.5	9	3	US-09-872-836-115
4	43	91.5	9	4	US-10-128-711-68
5	43	91.5	9	4	US-10-472-661-5
6	43	91.5	9	4	US-10-472-661-6
7	43	91.5	9	4	US-10-777-053-326
8	43	91.5	9	4	US-10-777-053-490
9	43	91.5	9	4	US-10-837-217-326
10	43	91.5	9	4	US-10-837-217-490
11	43	91.5	9	5	US-10-603-062-2
12	43	91.5	9	5	US-10-751-845-102
13	43	91.5	10	3	US-09-888-721-8
14	43	91.5	10	3	US-10-668-400-10
15	43	91.5	10	5	US-10-484-063-18
16	43	91.5	11	3	US-09-759-960-31
17	43	91.5	11	3	US-09-759-960-33
18	43	91.5	11	5	US-10-603-062-31
19	43	91.5	11	5	US-10-603-062-33
20	43	91.5	12	3	US-09-759-960-16
21	43	91.5	12	5	US-10-603-062-16
22	43	91.5	13	3	US-09-759-960-4
23	43	91.5	13	3	US-09-759-960-4
24	43	91.5	13	3	US-09-909-460-19
25	43	91.5	13	3	US-09-909-460-110
26	43	91.5	13	3	US-09-872-836-110
27	43	91.5	13	5	US-10-603-062-3

28	43	91.5	13	5	US-10-603-062-4	Sequence 4, Appli
29	43	91.5	13	5	US-10-603-062-12	Sequence 19, Appl
30	43	91.5	14	3	US-09-759-960-32	Sequence 32, Appl
31	43	91.5	14	5	US-10-603-062-32	Sequence 32, Appl
32	43	91.5	15	4	US-10-648-547-71	Sequence 71, Appl
33	43	91.5	15	4	US-10-648-547-84	Sequence 84, Appl
34	43	91.5	15	4	US-10-476-570-52	Sequence 52, Appl
35	43	91.5	15	4	US-10-306-541-71	Sequence 71, Appl
36	43	91.5	15	4	US-10-306-541-84	Sequence 84, Appl
37	43	91.5	16	3	US-09-759-960-25	Sequence 25, Appl
38	43	91.5	16	3	US-09-909-460-109	Sequence 109, App
39	43	91.5	16	3	US-09-872-836-109	Sequence 109, App
40	43	91.5	16	3	US-10-603-062-25	Sequence 25, Appl
41	43	91.5	16	5	US-10-758-970-109	Sequence 109, App
42	43	91.5	17	5	US-10-751-845-69	Sequence 69, Appl
43	43	91.5	19	5	US-10-476-570-58	Sequence 58, Appl
44	43	91.5	19	5	US-10-858-384-18	Sequence 18, Appl
45	43	91.5	20	5	US-10-484-063-19	Sequence 19, Appl
46	43	91.5	21	4	US-10-432-465-51	Sequence 51, Appl
47	43	91.5	21	4	US-10-476-570-18	Sequence 18, Appl
48	43	91.5	21	5	US-10-890-526-76	Sequence 76, Appl
49	43	91.5	21	5	US-09-759-960-6	Sequence 6, Appli
50	43	91.5	38	3	US-10-603-062-6	Sequence 6, Appli
51	43	91.5	38	5	US-09-728-466-1	Sequence 1, Appli
52	43	91.5	98	3	US-09-820-765-4	Sequence 4, Appli
53	43	91.5	98	3	US-09-824-017-4	Sequence 4, Appli
54	43	91.5	98	3	US-09-986-118A-4	Sequence 4, Appli
55	43	91.5	98	3	US-10-267-311-8	Sequence 8, Appli
56	43	91.5	98	4	US-10-177-390-8	Sequence 8, Appli
57	43	91.5	98	4	US-10-201-764-19	Sequence 19, Appl
58	43	91.5	98	4	US-10-392-113-29	Sequence 29, Appl
59	43	91.5	98	4	US-10-654-129-4	Sequence 4, Appli
60	43	91.5	98	4	US-10-661-410-19	Sequence 19, Appl
61	43	91.5	98	4	US-10-772-988-3	Sequence 3, Appli
62	43	91.5	98	4	US-10-479-541-5	Sequence 5, Appli
63	43	91.5	98	5	US-10-042-526A-4	Sequence 4, Appli
64	43	91.5	98	5	US-10-657-399-1	Sequence 1, Appli
65	43	91.5	98	5	US-10-858-384-12	Sequence 12, Appl
66	43	91.5	98	5	US-10-484-063-26	Sequence 26, Appl
67	43	91.5	98	5	US-10-343-448-5	Sequence 5, Appli
68	43	91.5	98	5	US-10-679-956-8	Sequence 8, Appli
69	43	91.5	98	5	US-10-367-057-17	Sequence 17, Appl
70	43	91.5	98	6	US-11-077-929-5	Sequence 5, Appli
71	43	91.5	99	4	US-10-115-440-7	Sequence 7, Appli
72	43	91.5	111	4	US-10-472-724-4	Sequence 4, Appli
73	43	91.5	117	5	US-10-751-845-126	Sequence 12, App
74	43	91.5	121	5	US-10-267-311-12	Sequence 12, Appl
75	43	91.5	185	6	US-10-679-956-12	Sequence 12, Appl
76	43	91.5	198	4	US-11-072-288-2	Sequence 2, Appli
77	43	91.5	198	4	US-10-267-311-35	Sequence 35, Appl
78	43	91.5	198	5	US-10-679-956-35	Sequence 35, Appl
79	43	91.5	220	4	US-10-000-903-1	Sequence 1, Appli
80	43	91.5	220	5	US-10-000-903-8	Sequence 8, Appli
81	43	91.5	220	5	US-10-899-771-1	Sequence 1, Appli
82	43	91.5	220	5	US-10-899-771-8	Sequence 8, Appli
83	43	91.5	226	5	US-10-751-845-157	Sequence 157, App
84	43	91.5	236	5	US-10-751-845-158	Sequence 158, App
85	43	91.5	237	5	US-10-000-903-12	Sequence 12, Appl
86	43	91.5	239	5	US-10-899-771-12	Sequence 12, Appl
87	43	91.5	261	5	US-10-751-845-160	Sequence 160, App
88	43	91.5	266	3	US-09-367-309A-1	Sequence 1, Appli
89	43	91.5	289	4	US-10-115-440-5	Sequence 5, Appli
90	43	91.5	295	4	US-10-267-311-33	Sequence 33, Appl
91	43	91.5	295	5	US-10-679-956-33	Sequence 33, Appl
92	43	91.5	324	5	US-10-267-311-25	Sequence 25, Appl
93	43	91.5	324	5	US-10-679-956-25	Sequence 25, Appl
94	43	91.5	334	4	US-10-472-724-10	Sequence 10, Appl
95	43	91.5	371	4	US-10-000-903-6	Sequence 6, Appli
96	43	91.5	371	5	US-10-899-771-6	Sequence 6, Appli
97	43	91.5	390	5	US-10-000-903-14	Sequence 14, Appl
98	43	91.5	421	5	US-10-899-771-14	Sequence 14, Appl
99	43	91.5	421	5	US-10-296-770-7	Sequence 7, Appli
100	43	91.5	493	4	US-10-267-311-19	Sequence 19, Appl

101	43	91.5	493	5	US-10-679-956-19	Sequence 19, Appl	174	34	72.3	9	5	US-10-871-138-50	Sequence 50, Appl
102	43	91.5	639	4	US-10-267-311-17	Sequence 17, Appl	175	34	72.3	9	5	US-10-751-845-104	Sequence 104, Appl
103	43	91.5	639	5	US-10-679-956-17	Sequence 17, Appl	176	34	72.3	10	3	US-09-891-823-13	Sequence 12, Appl
104	43	91.5	641	4	US-10-267-311-51	Sequence 51, Appl	177	34	72.3	10	3	US-09-891-823-46	Sequence 46, Appl
105	43	91.5	641	5	US-10-679-956-51	Sequence 51, Appl	178	34	72.3	10	4	US-10-365-908-12	Sequence 12, Appl
106	43	91.5	647	4	US-10-267-311-53	Sequence 53, Appl	179	34	72.3	10	4	US-10-365-908-46	Sequence 46, Appl
107	43	91.5	647	5	US-10-679-956-53	Sequence 53, Appl	180	34	72.3	10	5	US-10-871-138-12	Sequence 12, Appl
108	43	91.5	648	4	US-10-267-311-29	Sequence 29, Appl	181	34	72.3	10	5	US-10-871-138-46	Sequence 46, Appl
109	43	91.5	648	5	US-10-679-956-29	Sequence 29, Appl	182	34	72.3	12	3	US-09-909-460-108	Sequence 108, Appl
110	43	91.5	711	4	US-10-267-311-41	Sequence 41, Appl	183	34	72.3	12	5	US-09-872-836-108	Sequence 108, Appl
111	43	91.5	711	5	US-10-679-956-41	Sequence 41, Appl	184	34	72.3	12	5	US-10-758-970-108	Sequence 108, Appl
112	43	91.5	724	4	US-10-267-311-45	Sequence 45, Appl	185	34	72.3	12	5	US-10-751-845-62	Sequence 62, Appl
113	43	91.5	724	5	US-10-679-956-45	Sequence 45, Appl	186	34	72.3	19	5	US-10-776-521B-376	Sequence 376, Appl
114	43	91.5	805	4	US-10-367-095-9	Sequence 9, Appl1	187	34	72.3	20	5	US-10-776-521B-376	Sequence 377, Appl
115	43	91.5	805	4	US-10-368-046-9	Sequence 9, Appl1	188	34	72.3	93	4	US-10-425-115-302291	Sequence 25291, Appl
116	43	91.5	805	4	US-10-367-367-9	Sequence 9, Appl1	189	34	72.3	126	4	US-10-425-115-225721	Sequence 225721, Appl
117	43	91.5	805	5	US-10-918-337-9	Sequence 9, Appl1	190	34	72.3	224	4	US-10-425-115-224835	Sequence 224835, Appl
118	39	83.0	252	4	US-10-437-963-117646	Sequence 117646, Appl	191	34	72.3	312	4	US-10-369-493-4498	Sequence 4498, Appl
119	38	80.9	9	3	US-09-891-823-21	Sequence 21, Appl	192	34	72.3	312	4	US-10-369-493-7257	Sequence 7257, Appl
120	38	80.9	9	4	US-10-365-908-21	Sequence 21, Appl	193	34	72.3	458	4	US-10-370-100-1	Sequence 1, Appl1
121	38	80.9	9	4	US-10-777-053-548	Sequence 548, Appl	194	34	72.3	458	6	US-11-102-757-1	Sequence 1, Appl1
122	38	80.9	9	4	US-10-837-217-548	Sequence 548, Appl	195	34	72.3	460	3	US-09-866-572A-71	Sequence 71, Appl
123	37	78.7	98	5	US-10-357-057-12	Sequence 12, Appl	196	34	72.3	460	3	US-09-866-570A-71	Sequence 71, Appl
124	37	78.7	517	5	US-10-475-203A-14	Sequence 14, Appl	197	34	72.3	460	4	US-10-166-984-71	Sequence 71, Appl
125	36	76.6	8	3	US-09-759-960-26	Sequence 26, Appl	198	34	72.3	460	4	US-10-166-984-71	Sequence 71, Appl
126	36	76.6	25	3	US-09-864-761-34848	Sequence 34848, A	199	34	72.3	619	4	US-10-437-963-118852	Sequence 118852, Appl
127	36	76.6	25	3	US-10-424-599-257508	Sequence 257508, Appl	200	34	72.3	705	4	US-10-156-761-9165	Sequence 9185, Appl
128	36	76.6	46	4	US-10-424-599-257508	Sequence 257508, Appl	201	34	72.3	734	4	US-10-282-122A-72058	Sequence 72058, A
129	36	76.6	116	4	US-10-425-115-336071	Sequence 336071, Appl	202	34	72.3	747	4	US-10-437-963-114850	Sequence 114850, Appl
130	36	76.6	116	5	US-10-732-923-1829	Sequence 1829, Ap	203	34	72.3	9	5	US-10-884-862-228	Sequence 228, Appl
131	36	76.6	116	5	US-10-264-049-2741	Sequence 2741, Ap	204	33	70.2	9	5	US-10-884-862-273	Sequence 273, Appl
132	35	74.5	104	4	US-10-264-237-2079	Sequence 2079, Ap	205	33	70.2	59	4	US-10-425-115-2295016	Sequence 295016, Appl
133	35	74.5	145	4	US-10-424-599-215122	Sequence 215122, Appl	206	33	70.2	75	4	US-10-083-357-794	Sequence 794, Appl
134	35	74.5	162	4	US-10-425-115-301498	Sequence 301498, Appl	207	33	70.2	76	4	US-10-424-599-185324	Sequence 185324, Appl
135	35	74.5	189	5	US-10-450-763-37926	Sequence 37926, A	208	33	70.2	88	4	US-10-424-599-178446	Sequence 178446, Appl
136	35	74.5	307	4	US-10-002-631C-30	Sequence 30, Appl	209	33	70.2	94	3	US-09-796-692-877	Sequence 877, Appl
137	35	74.5	327	4	US-10-264-049-2741	Sequence 2741, Ap	210	33	70.2	94	4	US-10-040-862-877	Sequence 877, Appl
138	35	74.5	473	3	US-09-374-046A-68	Sequence 68, Appl	211	33	70.2	94	4	US-10-057-475B-877	Sequence 877, Appl
139	35	74.5	473	3	US-10-616-263-68	Sequence 68, Appl	212	33	70.2	94	4	US-10-057-475B-877	Sequence 877, Appl
140	35	74.5	485	4	US-10-191-398A-5	Sequence 5, Appl1	213	33	70.2	94	4	US-10-154-884B-1736	Sequence 1736, Appl
141	35	74.5	487	4	US-10-415-378-12	Sequence 12, Appl	214	33	70.2	95	4	US-10-764-324-877	Sequence 877, Appl
142	35	74.5	487	4	US-10-648-593-250	Sequence 250, App	215	33	70.2	95	4	US-10-425-115-250602	Sequence 250602, Appl
143	35	74.5	487	4	US-10-343-116-2	Sequence 2, Appl1	216	33	70.2	96	4	US-10-425-115-316120	Sequence 316120, Appl
144	35	74.5	506	4	US-10-424-599-278611	Sequence 278611, Appl	217	33	70.2	103	4	US-10-424-599-186002	Sequence 186002, Appl
145	35	74.5	506	4	US-10-450-763-31304	Sequence 31304, A	218	33	70.2	106	4	US-10-425-115-309917	Sequence 309917, Appl
146	34	72.3	8	3	US-09-759-960-20	Sequence 20, Appl	219	33	70.2	108	3	US-09-796-692-1071	Sequence 1071, Appl
147	34	72.3	8	3	US-09-835-853-21	Sequence 21, Appl	220	33	70.2	108	4	US-10-057-475B-1071	Sequence 1071, Appl
148	34	72.3	8	3	US-09-909-460-107	Sequence 107, App	221	33	70.2	108	4	US-10-154-884B-1071	Sequence 1071, Appl
149	34	72.3	8	3	US-09-872-836-107	Sequence 107, Appl	222	33	70.2	108	4	US-10-764-324-1071	Sequence 1071, Appl
150	34	72.3	8	4	US-10-106-487-20	Sequence 20, Appl	223	33	70.2	108	4	US-10-764-324-1071	Sequence 1071, Appl
151	34	72.3	8	4	US-10-133-210-276	Sequence 276, Appl	224	33	70.2	119	3	US-09-796-692-1736	Sequence 1736, Appl
152	34	72.3	8	4	US-10-465-811-89	Sequence 89, Appl	225	33	70.2	119	4	US-10-040-862-1736	Sequence 1736, Appl
153	34	72.3	8	4	US-10-388-337-20	Sequence 20, Appl	226	33	70.2	119	4	US-10-057-475B-1736	Sequence 1736, Appl
154	34	72.3	8	4	US-10-472-661-8	Sequence 8, Appl1	227	33	70.2	119	4	US-10-154-884B-1736	Sequence 1736, Appl
155	34	72.3	8	4	US-10-777-053-544	Sequence 544, Appl	228	33	70.2	119	4	US-10-764-324-1736	Sequence 1736, Appl
156	34	72.3	8	4	US-10-837-217-544	Sequence 544, Appl	229	33	70.2	120	3	US-09-796-692-1065	Sequence 1065, Appl
157	34	72.3	8	5	US-10-603-062-20	Sequence 20, Appl	230	33	70.2	120	3	US-10-040-862-1065	Sequence 1065, Appl
158	34	72.3	8	5	US-10-758-970-107	Sequence 107, Appl	231	33	70.2	120	4	US-10-057-475B-1065	Sequence 1065, Appl
159	34	72.3	8	5	US-10-751-845-61	Sequence 61, Appl	232	33	70.2	120	4	US-10-154-884B-1065	Sequence 1065, Appl
160	34	72.3	8	5	US-10-776-521B-365	Sequence 365, App	233	33	70.2	120	4	US-10-764-324-1065	Sequence 1065, Appl
161	34	72.3	8	5	US-10-820-067A-876	Sequence 876, App	234	33	70.2	123	4	US-10-425-115-221325	Sequence 221325, Appl
162	34	72.3	9	3	US-09-759-960-21	Sequence 21, Appl	235	33	70.2	123	4	US-10-425-115-316118	Sequence 316118, Appl
163	34	72.3	9	3	US-09-759-960-27	Sequence 27, Appl	236	33	70.2	149	3	US-09-796-692-1077	Sequence 1077, Appl
164	34	72.3	9	3	US-09-891-823-50	Sequence 50, Appl	237	33	70.2	149	3	US-10-040-862-1077	Sequence 1077, Appl
165	34	72.3	9	4	US-10-128-711-70	Sequence 70, Appl	238	33	70.2	149	4	US-10-057-475B-1077	Sequence 1077, Appl
166	34	72.3	9	4	US-10-365-908-50	Sequence 50, Appl	239	33	70.2	149	4	US-10-154-884B-1077	Sequence 1077, Appl
167	34	72.3	9	4	US-10-472-661-9	Sequence 9, Appl1	240	33	70.2	149	4	US-10-764-324-1077	Sequence 1077, Appl
168	34	72.3	9	4	US-10-777-053-327	Sequence 327, App	241	33	70.2	155	3	US-09-796-692-1642	Sequence 1642, Appl
169	34	72.3	9	4	US-10-777-053-494	Sequence 494, App	242	33	70.2	155	4	US-10-040-862-1642	Sequence 1642, Appl
170	34	72.3	9	4	US-10-837-217-327	Sequence 327, App	243	33	70.2	155	4	US-10-057-475B-1642	Sequence 1642, Appl
171	34	72.3	9	5	US-10-837-217-494	Sequence 494, App	244	33	70.2	155	4	US-10-154-884B-1642	Sequence 1642, Appl
172	34	72.3	9	5	US-10-603-062-21	Sequence 21, Appl	245	33	70.2	155	4	US-10-764-324-1642	Sequence 1642, Appl
173	34	72.3	9	5	US-10-603-062-27	Sequence 27, Appl	246	33	70.2	161	3	US-09-796-692-684	Sequence 684, Appl

247	33	70.2	161	4	US-10-040-862-684	Sequence 684, App	320	32	68.1	9	4	US-10-365-908-74	Sequence 74, Appl
248	33	70.2	161	4	US-10-057-475B-684	Sequence 684, App	321	32	68.1	9	4	US-10-044-84B-125	Sequence 125, App
249	33	70.2	161	4	US-10-154-884B-684	Sequence 684, App	322	32	68.1	9	5	US-10-871-138-74	Sequence 74, Appl
250	33	70.2	161	4	US-10-764-324-684	Sequence 684, App	323	32	68.1	9	5	US-10-846-079-125	Sequence 125, App
251	33	70.2	162	4	US-10-283-122A-47742	Sequence 47742, A	324	32	68.1	58	4	US-10-424-599-293518	Sequence 293518, A
252	33	70.2	162	4	US-10-283-122A-50273	Sequence 50273, A	325	32	68.1	62	4	US-10-029-386-22957	Sequence 22957, A
253	33	70.2	193	4	US-10-437-963-152967	Sequence 152967, A	326	32	68.1	63	4	US-10-424-599-214149	Sequence 214149, A
254	33	70.2	206	4	US-10-437-963-190858	Sequence 190858, A	327	32	68.1	67	4	US-10-424-599-178055	Sequence 178055, A
255	33	70.2	227	4	US-10-424-599-164527	Sequence 164527, A	328	32	68.1	69	4	US-10-424-599-186314	Sequence 186314, A
256	33	70.2	227	5	US-10-733-923-15687	Sequence 15687, A	329	32	68.1	74	4	US-10-425-115-341782	Sequence 341782, A
257	33	70.2	229	5	US-10-739-930-7025	Sequence 7025, Ap	330	32	68.1	80	4	US-10-424-599-194490	Sequence 194490, A
258	33	70.2	247	4	US-10-424-599-198295	Sequence 198295, A	331	32	68.1	82	4	US-10-424-599-229676	Sequence 229676, A
259	33	70.2	249	5	US-10-732-923-15585	Sequence 15585, A	332	32	68.1	83	4	US-10-424-599-257756	Sequence 257756, A
260	33	70.2	249	5	US-10-732-923-15658	Sequence 15658, A	333	32	68.1	91	4	US-10-424-599-182522	Sequence 182522, A
261	33	70.2	250	4	US-10-424-599-164528	Sequence 164528, A	334	32	68.1	94	4	US-10-424-599-195926	Sequence 195926, A
262	33	70.2	253	5	US-10-733-923-15686	Sequence 15686, A	335	32	68.1	103	4	US-10-156-761-13337	Sequence 13327, A
263	33	70.2	297	3	US-09-836-544-112	Sequence 12, Appl	336	32	68.1	106	4	US-10-425-115-159452	Sequence 359452, A
264	33	70.2	297	4	US-10-205-823-269	Sequence 269, App	337	32	68.1	107	5	US-10-732-923-15757	Sequence 15757, A
265	33	70.2	297	4	US-10-207-653-131	Sequence 131, App	338	32	68.1	114	4	US-09-738-626-3516	Sequence 3516, Ap
266	33	70.2	297	4	US-10-156-136-38	Sequence 38, Appl	339	32	68.1	114	4	US-10-424-599-147618	Sequence 147618, A
267	33	70.2	297	4	US-10-327-663-4	Sequence 4, Appl1	340	32	68.1	114	5	US-10-494-672-180	Sequence 16326, A
268	33	70.2	297	4	US-10-409-598-5	Sequence 5, Appl1	341	32	68.1	129	4	US-10-437-963-136326	Sequence 300853, A
269	33	70.2	297	4	US-10-433-287-40	Sequence 40, Appl	342	32	68.1	129	4	US-10-425-115-200853	Sequence 287068, A
270	33	70.2	297	5	US-10-473-127-1515	Sequence 1515, Ap	343	32	68.1	173	4	US-10-425-115-239049	Sequence 239049, A
271	33	70.2	297	5	US-10-473-127-1516	Sequence 1516, Ap	344	32	68.1	188	4	US-10-508-109-19	Sequence 136210, A
272	33	70.2	297	5	US-10-473-127-1517	Sequence 1517, Ap	345	32	68.1	198	5	US-10-508-109-19	Sequence 19, Appl
273	33	70.2	297	5	US-10-473-127-1518	Sequence 1518, Ap	346	32	68.1	203	3	US-09-350-874-12	Sequence 12, Appl
274	33	70.2	297	5	US-10-473-127-1519	Sequence 1519, Ap	347	32	68.1	203	4	US-10-106-989-12	Sequence 12, Appl
275	33	70.2	297	5	US-10-473-127-1527	Sequence 1527, Ap	348	32	68.1	225	4	US-10-424-599-320376	Sequence 220376, A
276	33	70.2	297	5	US-10-473-127-1528	Sequence 1528, Ap	349	32	68.1	225	4	US-10-424-599-251416	Sequence 251416, A
277	33	70.2	297	5	US-10-473-127-1529	Sequence 1529, Ap	350	32	68.1	225	4	US-10-732-923-15707	Sequence 15707, A
278	33	70.2	297	5	US-10-473-127-1530	Sequence 1530, Ap	351	32	68.1	228	5	US-10-424-599-251412	Sequence 25412, A
279	33	70.2	297	5	US-10-473-127-1531	Sequence 1531, Ap	352	32	68.1	237	4	US-10-424-599-251412	Sequence 25412, A
280	33	70.2	297	5	US-10-473-127-1533	Sequence 1533, Ap	353	32	68.1	245	3	US-09-350-874-4	Sequence 4, Appl1
281	33	70.2	297	5	US-10-473-127-1534	Sequence 1534, Ap	354	32	68.1	245	4	US-10-106-989-4	Sequence 4, Appl1
282	33	70.2	297	5	US-10-473-127-1535	Sequence 1535, Ap	355	32	68.1	250	5	US-10-424-599-330375	Sequence 230375, A
283	33	70.2	297	5	US-10-884-862-14	Sequence 14, Appl	356	32	68.1	250	5	US-10-732-923-15706	Sequence 15706, A
284	33	70.2	297	5	US-10-861-049-63	Sequence 63, Appl	357	32	68.1	251	4	US-10-425-114-17197	Sequence 17197, A
285	33	70.2	297	5	US-10-989-826-4	Sequence 4, Appl1	358	32	68.1	252	4	US-10-424-599-191179	Sequence 215594, A
286	33	70.2	297	6	US-11-021-874-63	Sequence 63, Appl	359	32	68.1	252	4	US-10-424-599-330383	Sequence 230383, A
287	33	70.2	297	6	US-11-041-419-38	Sequence 38, Appl	360	32	68.1	252	4	US-10-424-599-251413	Sequence 251413, A
288	33	70.2	297	6	US-11-051-454-289	Sequence 289, App	361	32	68.1	252	4	US-10-425-114-54650	Sequence 54650, A
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292	33	70.2	360	4	US-10-028-748-2	Sequence 2, Appl1	365	32	68.1	261	4	US-10-425-114-54694	Sequence 54694, A
293	33	70.2	360	5	US-10-370-715B-110	Sequence 510, App	366	32	68.1	261	4	US-10-425-114-54964	Sequence 54964, A
294	33	70.2	393	4	US-10-767-701-44259	Sequence 44259, A	367	32	68.1	261	4	US-10-425-114-54974	Sequence 54974, A
295	33	70.2	508	4	US-10-369-493-3662	Sequence 3662, Ap	368	32	68.1	261	4	US-10-425-114-54994	Sequence 54994, A
296	33	70.2	508	4	US-10-369-493-1879	Sequence 12879, A	369	32	68.1	261	4	US-10-425-114-54999	Sequence 54999, A
297	33	70.2	518	5	US-10-498-327-43	Sequence 43, Appl	370	32	68.1	261	4	US-10-425-114-54999	Sequence 71947, A
298	33	70.2	518	5	US-10-498-327-45	Sequence 45, Appl	371	32	68.1	261	4	US-10-425-114-54999	Sequence 71990, A
299	33	70.2	532	4	US-10-369-493-3937	Sequence 3937, Ap	372	32	68.1	266	4	US-10-425-114-59284	Sequence 59284, A
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302	33	70.2	897	4	US-10-425-115-302918	Sequence 302918, A	375	32	68.1	278	5	US-10-450-763-37486	Sequence 37486, A
303	33	70.2	901	4	US-10-174-363-8	Sequence 8, Appl1	376	32	68.1	291	4	US-10-433-287-48	Sequence 48, Appl
304	33	70.2	901	4	US-10-437-963-112120	Sequence 131210, A	377	32	68.1	294	4	US-10-425-114-47103	Sequence 47103, A
305	33	70.2	901	6	US-11-093-888-8	Sequence 8, Appl1	378	32	68.1	294	4	US-10-425-115-239042	Sequence 239042, A
306	33	70.2	904	6	US-10-174-363-55	Sequence 55, Appl	379	32	68.1	295	4	US-10-424-599-191597	Sequence 191597, A
307	33	70.2	904	6	US-11-093-888-55	Sequence 55, Appl	380	32	68.1	315	5	US-10-508-109-16	Sequence 16, Appl
308	33	70.2	915	4	US-10-174-363-40	Sequence 40, Appl	381	32	68.1	316	4	US-10-369-493-2086	Sequence 2086, Ap
309	33	70.2	915	6	US-11-093-888-40	Sequence 40, Appl	382	32	68.1	323	3	US-09-815-242-11181	Sequence 11181, A
310	33	70.2	916	4	US-10-424-599-186004	Sequence 186004, A	383	32	68.1	323	4	US-10-282-122A-58411	Sequence 58411, A
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312	33	70.2	930	4	US-10-374-780A-2562	Sequence 2562, Ap	385	32	68.1	330	4	US-10-282-122A-67439	Sequence 67439, A
313	33	70.2	989	4	US-10-437-963-199847	Sequence 199847, A	386	32	68.1	331	4	US-10-369-493-16757	Sequence 16757, A
314	33	70.2	1036	4	US-10-437-963-157688	Sequence 157688, A	387	32	68.1	333	4	US-10-251-385-16	Sequence 16, Appl
315	33	70.2	1140	6	US-11-097-143-33987	Sequence 33987, A	388	32	68.1	333	4	US-10-251-385-172	Sequence 172, App
316	33	70.2	1241	4	US-10-437-963-115698	Sequence 115698, A	389	32	68.1	333	4	US-10-225-5678A-779	Sequence 27870, A
317	33	70.2	1440	4	US-10-437-963-153321	Sequence 153321, A	390	32	68.1	333	4	US-10-282-122A-77870	Sequence 77870, A
318	33	70.2	1958	6	US-11-097-143-11610	Sequence 11610, A	391	32	68.1	333	4	US-10-433-561-32	Sequence 32, Appl
319	32	68.1	9	3	US-09-891-823-74	Sequence 74, Appl	392	32	68.1	333	4	US-10-477-726-4	Sequence 4, Appl1

393	32	68.1	333	5	US-10-480-739A-84	Sequence 84, Appl	466	31	66.0	109	4	US-10-296-115-1132	Sequence 1192, Ap
394	32	68.1	333	5	US-10-723-860-7738	Sequence 2738, Ap	467	31	66.0	109	4	US-10-425-115-327402	Sequence 327402, Ap
395	32	68.1	333	5	US-10-768-197-75	Sequence 75, Appl	468	31	66.0	115	4	US-10-424-599-280769	Sequence 280769, Ap
396	32	68.1	333	5	US-10-500-175A-4	Sequence 4, Appl1	469	31	66.0	120	3	US-09-864-408A-7236	Sequence 7236, Ap
397	32	68.1	333	5	US-10-311-0198-4	Sequence 4, Appl1	470	31	66.0	123	4	US-10-424-599-221252	Sequence 221252, Ap
398	32	68.1	335	3	US-09-815-242-13844	Sequence 13844, A	471	31	66.0	132	4	US-10-767-701-43361	Sequence 43361, A
399	32	68.1	335	4	US-10-282-122A-72702	Sequence 72702, A	472	31	66.0	158	4	US-10-424-599-253192	Sequence 253192, Ap
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401	32	68.1	337	4	US-10-282-122A-59532	Sequence 59532, A	474	31	66.0	174	4	US-10-767-701-45672	Sequence 45672, A
402	32	68.1	347	5	US-10-788-197-77	Sequence 77, Appl	475	31	66.0	175	3	US-09-793-232-2	Sequence 2, Appl1
403	32	68.1	364	5	US-10-633-438-56	Sequence 56, Appl	476	31	66.0	175	4	US-10-144-929-106	Sequence 106, App
404	32	68.1	364	5	US-10-788-197-79	Sequence 79, Appl	477	31	66.0	175	4	US-10-144-929-106	Sequence 106, App
405	32	68.1	364	5	US-10-901-772-56	Sequence 79, Appl	478	31	66.0	175	5	US-10-866-831-106	Sequence 409, App
406	32	68.1	378	5	US-10-788-197-81	Sequence 81, Appl	479	31	66.0	175	5	US-10-287-436A-409	Sequence 1107, Ap
407	32	68.1	383	4	US-10-369-493-153602	Sequence 153602, A	480	31	66.0	182	4	US-10-387-436A-1107	Sequence 166259, Ap
408	32	68.1	400	4	US-10-437-963-4601	Sequence 4601, Ap	481	31	66.0	192	3	US-09-931-457A-56	Sequence 56, Appl
409	32	68.1	405	5	US-10-732-923-4163	Sequence 4163, Ap	482	31	66.0	197	4	US-10-017-161-576	Sequence 576, Appl
410	32	68.1	411	5	US-10-732-923-23728	Sequence 23728, A	483	31	66.0	198	4	US-10-425-115-256924	Sequence 256924, Ap
411	32	68.1	411	5	US-10-732-923-4162	Sequence 4162, Ap	484	31	66.0	198	4	US-10-328-075-1251	Sequence 1311, Ap
412	32	68.1	429	4	US-10-369-493-7358	Sequence 7358, Ap	485	31	66.0	206	4	US-10-424-599-175509	Sequence 175509, A
413	32	68.1	437	5	US-10-439-247-22	Sequence 22, Appl	486	31	66.0	214	4	US-10-425-114-50340	Sequence 50340, A
414	32	68.1	453	5	US-10-732-923-11171	Sequence 11171, A	487	31	66.0	225	4	US-10-156-761-11134	Sequence 11134, A
415	32	68.1	458	4	US-10-282-122A-49157	Sequence 49157, A	488	31	66.0	225	4	US-10-424-599-177258	Sequence 177258, Ap
416	32	68.1	512	5	US-10-957-828-4	Sequence 4, Appl1	489	31	66.0	230	5	US-10-472-928-408	Sequence 408, App
417	32	68.1	534	6	US-11-097-143-17595	Sequence 17595, A	490	31	66.0	234	4	US-10-425-115-216320	Sequence 216320, Ap
418	32	68.1	548	4	US-10-437-963-152715	Sequence 152715, A	491	31	66.0	235	3	US-09-769-787-58	Sequence 58, Appl
419	32	68.1	601	4	US-10-424-599-772365	Sequence 272365, A	492	31	66.0	235	3	US-09-769-787-58	Sequence 59, Appl
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423	32	68.1	705	4	US-10-425-115-350422	Sequence 250422, A	496	31	66.0	252	5	US-10-732-923-165966	Sequence 165966, A
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427	32	68.1	875	4	US-10-425-115-39041	Sequence 239041, A	500	31	66.0	265	4	US-10-425-114-62005	Sequence 62005, A
428	32	68.1	888	4	US-10-041-018-288	Sequence 288, App	501	31	66.0	272	4	US-10-264-237-1992	Sequence 1902, Ap
429	32	68.1	910	6	US-10-174-363-32	Sequence 22, Appl	502	31	66.0	272	4	US-09-931-457A-113	Sequence 13, Appl
430	32	68.1	910	6	US-11-093-888-22	Sequence 22, Appl	503	31	66.0	306	3	US-10-156-761-13139	Sequence 13139, A
431	32	68.1	959	4	US-10-437-963-185988	Sequence 185988, A	504	31	66.0	315	4	US-10-023-597-38	Sequence 38, Appl
432	32	68.1	1012	4	US-10-437-963-156978	Sequence 156978, A	505	31	66.0	315	4	US-10-023-597-38	Sequence 40, Appl
433	32	68.1	1013	4	US-10-437-963-158813	Sequence 158813, A	506	31	66.0	315	5	US-10-774-355A-1162	Sequence 1362, Appl
434	32	68.1	1024	4	US-10-437-963-184022	Sequence 184022, A	507	31	66.0	315	4	US-09-931-457-9	Sequence 9, Appl1
435	32	68.1	1141	5	US-10-732-923-18071	Sequence 18071, A	508	31	66.0	321	3	US-10-369-493-3708	Sequence 3708, Ap
436	32	68.1	1167	3	US-09-750-240-6	Sequence 6, Appl1	509	31	66.0	326	4	US-10-337-963-198521	Sequence 198521, Ap
437	32	68.1	1167	3	US-09-750-240-13	Sequence 13, Appl	510	31	66.0	326	4	US-10-369-493-17443	Sequence 17443, A
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439	32	68.1	1168	3	US-10-201-000-2	Sequence 2, Appl1	512	31	66.0	336	4	US-10-085-198A-180	Sequence 180, App
440	32	68.1	1168	5	US-10-719-993-700	Sequence 700, App	513	31	66.0	336	5	US-10-480-739A-88	Sequence 88, Appl
441	32	68.1	1168	5	US-10-991-327-2	Sequence 2, Appl1	514	31	66.0	336	5	US-10-480-739A-88	Sequence 14472, A
442	32	68.1	1168	5	US-10-745-237-280	Sequence 280, App	515	31	66.0	336	4	US-10-369-493-14472	Sequence 50193, A
443	32	68.1	1168	5	US-10-945-917-57	Sequence 57, Appl	516	31	66.0	336	4	US-10-282-122A-50193	Sequence 3862, Ap
444	32	68.1	1394	3	US-09-945-917-58	Sequence 58, Appl	517	31	66.0	383	5	US-10-501-282-3216	Sequence 18, Appl
445	32	68.1	1528	3	US-09-945-917-4	Sequence 3, Appl1	518	31	66.0	332	5	US-10-845-366-18	Sequence 2, Appl1
446	32	68.1	1583	3	US-09-945-917-4	Sequence 4, Appl1	519	31	66.0	400	3	US-09-971-227-2	Sequence 12, Appl
447	31	66.0	13	4	US-10-447-161-145	Sequence 145, App	520	31	66.0	400	3	US-09-971-227-2	Sequence 12, Appl
448	31	66.0	28	4	US-10-144-929-158	Sequence 158, App	521	31	66.0	400	6	US-11-100-593-1	Sequence 1, Appl1
449	31	66.0	28	4	US-10-144-929-158	Sequence 158, App	522	31	66.0	404	4	US-10-369-493-15092	Sequence 15092, A
450	31	66.0	28	5	US-10-866-831-158	Sequence 158, App	523	31	66.0	413	5	US-10-617-320-4507	Sequence 4507, Ap
451	31	66.0	48	4	US-10-144-929-186	Sequence 186, App	524	31	66.0	414	4	US-10-369-493-11566	Sequence 11566, A
452	31	66.0	48	4	US-10-144-929-186	Sequence 186, App	525	31	66.0	430	4	US-10-424-599-147305	Sequence 147305, A
453	31	66.0	48	5	US-10-866-831-186	Sequence 186, App	526	31	66.0	437	4	US-10-282-122A-47370	Sequence 47370, A
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455	31	66.0	57	4	US-10-424-599-212626	Sequence 212626, A	528	31	66.0	470	4	US-10-332-583-7769	Sequence 7769, Ap
456	31	66.0	78	4	US-10-425-115-208692	Sequence 208692, A	529	31	66.0	484	6	US-11-097-143-22116	Sequence 22116, A
457	31	66.0	86	4	US-10-424-599-152862	Sequence 152862, A	530	31	66.0	486	3	US-09-931-457A-11	Sequence 11, Appl
458	31	66.0	86	4	US-10-424-599-199597	Sequence 199597, A	531	31	66.0	486	4	US-10-425-115-362316	Sequence 362316, Ap
459	31	66.0	87	4	US-10-425-115-206203	Sequence 206203, A	532	31	66.0	486	4	US-10-437-963-201167	Sequence 201167, A
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462	31	66.0	100	4	US-10-425-115-363215	Sequence 363215, A	535	31	66.0	497	5	US-10-282-122A-74661	Sequence 74661, A
463	31	66.0	102	4	US-10-425-115-305958	Sequence 205958, A	536	31	66.0	503	3	US-10-474-792-276	Sequence 276, App
464	31	66.0	107	3	US-09-764-891-4419	Sequence 4419, Ap	537	31	66.0	503	3	US-09-769-787-74	Sequence 74, Appl
465	31	66.0	108	4	US-10-425-115-211472	Sequence 211472, A	538	31	66.0	503	4	US-10-282-122A-74219	Sequence 74219, A

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542	31	66.0	512	4	US-10-282-122A-42817	Sequence 42817, A
543	31	66.0	512	5	US-10-957-828-8	Sequence 8, Appl
544	31	66.0	518	4	US-10-425-114-37581	Sequence 37581, A
545	31	66.0	522	5	US-10-501-282-3864	Sequence 3864, Ap
546	31	66.0	526	6	US-11-097-143-28839	Sequence 28839, A
547	31	66.0	534	4	US-10-415-188-16	Sequence 16, Appl
548	31	66.0	534	5	US-10-477-720A-2	Sequence 2, Appl
549	31	66.0	534	5	US-10-477-720A-5	Sequence 5, Appl
550	31	66.0	536	5	US-10-617-320-2945	Sequence 2945, Ap
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554	31	66.0	581	6	US-11-097-143-31014	Sequence 31014, A
555	31	66.0	597	5	US-10-472-928-568	Sequence 568, App
556	31	66.0	618	3	US-09-995-007-2	Sequence 2, Appl
557	31	66.0	618	4	US-10-428-868-4	Sequence 4, Appl
558	31	66.0	618	5	US-10-937-239-2	Sequence 2, Appl
559	31	66.0	627	6	US-11-097-143-11217	Sequence 11217, A
560	31	66.0	660	4	US-10-282-122A-75437	Sequence 75437, A
561	31	66.0	688	4	US-10-416-898-16	Sequence 16, Appl
562	31	66.0	688	5	US-10-739-930-5952	Sequence 5952, Ap
563	31	66.0	702	4	US-10-437-963-130565	Sequence 130565, A
564	31	66.0	728	5	US-10-450-763-46363	Sequence 46363, A
565	31	66.0	808	4	US-10-437-963-182199	Sequence 182199, A
566	31	66.0	831	4	US-10-437-963-181561	Sequence 181561, A
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568	31	66.0	845	4	US-10-725-103-18	Sequence 18, Appl
569	31	66.0	845	4	US-10-725-489-18	Sequence 18, Appl
570	31	66.0	845	4	US-10-725-080A-18	Sequence 18, Appl
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990 29 61.7 253 4 US-10-029-386-33384 Sequence 33384, A
991 29 61.7 253 4 US-10-767-701-39186 Sequence 39186, A
992 29 61.7 259 4 US-10-425-115-301858 Sequence 301858,
993 29 61.7 269 5 US-10-481-265-103 Sequence 103, App
994 29 61.7 270 4 US-10-080-170-194 Sequence 194, App
995 29 61.7 270 4 US-10-282-122A-63070 Sequence 63070, A
996 29 61.7 270 4 US-10-424-599-216433 Sequence 216433,
997 29 61.7 270 4 US-10-080-170-194 Sequence 194, App
998 29 61.7 270 4 US-10-468-356-194 Sequence 194, App
999 29 61.7 271 4 US-10-424-599-245009 Sequence 245009,
1000 29 61.7 273 4 US-10-424-599-225203 Sequence 225203,
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## ALIGNMENTS

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RESULT 1
US-09-759-960-2
; Sequence 2, Application US/09759960
; Patent No. US20010006639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Collins, Edward J.
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
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US-09-759-960-2

Query Match 91.5%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 2

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US-09-909-460-111
; Sequence 111, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Lunsford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1999-05-27
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; SOFTWARE: FastSeq for Windows Version 3.0
; NUMBER OF SEQ ID NOS: 114
; SEQ ID NO 111
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-111
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Query Match 91.5%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 3

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US-09-872-836-115
; Sequence 115, Application US/09872836
; Publication No. US20040142475A1
; GENERAL INFORMATION:
; APPLICANT: Barman, Shikha P.
; APPLICANT: McKeever, Una
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
; FILE REFERENCE: 08191-018001
; CURRENT APPLICATION NUMBER: US/09/872,836
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,830
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 120
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-872-836-115
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Query Match 91.5%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 4  
US-10-128-711-68  
; Sequence 68, Application US/10128711  
; Publication No. US2003009634A1  
; GENERAL INFORMATION:  
; APPLICANT: VITIELLO, Maria A.  
; CHESTNUT, Robert W.  
; SETTE, Alessandro D.  
; CELIS, Rabeau  
; GRAY, Howard  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
; CTL IMMUNITY  
; NUMBER OF SEQUENCES: 153  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourile and Crew  
; STREET: Steuart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: US  
; ZIP: 94105-1493  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/128,711  
; FILING DATE: 22-Apr-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/197,484  
; FILING DATE: 16-FEB-1994  
; APPLICATION NUMBER: US 07/935,811  
; FILING DATE: 26-AUG-1992  
; APPLICATION NUMBER: US 07/874,491  
; FILING DATE: 27-APR-1992  
; APPLICATION NUMBER: US 07/827,682  
; FILING DATE: 29-JAN-1992  
; APPLICATION NUMBER: US 07/749,568  
; FILING DATE: 26-AUG-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W.  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 14137-26-4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 467-9600  
; TELEFAX: (206) 623-6793  
; INFORMATION FOR SEQ ID NO: 68:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; MOLECULE TYPE: peptide  
; SEQUENCE DESCRIPTION: SEQ ID NO: 68:  
US-10-128-711-68  
Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 5  
US-10-472-661-5  
; Sequence 5, Application US/10472661  
; Publication No. US20040106551A1  
; GENERAL INFORMATION:  
; APPLICANT: Khleif, Samir N.

APPLICANT: Bertozsky, Jay A.  
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE  
; FILE REFERENCE: 14014.040602  
; CURRENT APPLICATION NUMBER: US/10/472,661  
; CURRENT FILING DATE: 2003-09-22  
; PRIOR APPLICATION NUMBER: PCT/US02/09261  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: 60/278,520  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence; note =  
US-10-472-661-5  
Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 6  
US-10-472-661-6  
; Sequence 6, Application US/10472661  
; Publication No. US20040106551A1  
; GENERAL INFORMATION:  
; APPLICANT: Khleif, Samir N.  
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE  
; FILE REFERENCE: 14014.040602  
; CURRENT APPLICATION NUMBER: US/10/472,661  
; CURRENT FILING DATE: 2003-09-22  
; PRIOR APPLICATION NUMBER: PCT/US02/09261  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: 60/278,520  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence; note =  
US-10-472-661-6  
Query Match 91.5%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9

RESULT 7  
US-10-777-053-326  
; Sequence 326, Application US/10777053  
; Publication No. US20040132088A1  
; GENERAL INFORMATION:  
; APPLICANT: Simard, John J. L.  
; APPLICANT: Diamond, David C.

```
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
FILE REFERENCE: MANK.022C1
CURRENT FILING DATE: 2004-02-10
PRIOR APPLICATION NUMBER: 10/292,413
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/336,968
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 979
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 326
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papillomavirus 16
US-10-777-053-326
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db      1 TLGIAPIC 9
```

```
RESULT 8
US-10-777-053-490
Sequence 490, Application US/10777053
Publication No. US20040132088A1
GENERAL INFORMATION:
APPLICANT: Simard, John J. L.
APPLICANT: Diamond, David C.
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
FILE REFERENCE: MANK.022C1
CURRENT FILING DATE: 2004-02-10
CURRENT APPLICATION NUMBER: US/10/777,053
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/336,968
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 979
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 490
LENGTH: 9
TYPE: PRT
ORGANISM: Himetobi P Virus (H1PV)
US-10-777-053-490
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db      1 TLGIAPIC 9
```

```
RESULT 9
US-10-837-217-326
Sequence 326, Application US/10837217
Publication No. US20040203051A1
GENERAL INFORMATION:
APPLICANT: Simard, John J. L.
APPLICANT: Diamond, David C.
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
```

```
TITLE OF INVENTION: TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN
FILE REFERENCE: MANK.022C2
CURRENT APPLICATION NUMBER: US/10/837,217
CURRENT FILING DATE: 2004-04-30
PRIOR APPLICATION NUMBER: 10/292,413
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/336,968
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 979
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 326
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papillomavirus 16
US-10-837-217-326
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db      1 TLGIAPIC 9
```

```
RESULT 10
US-10-837-217-490
Sequence 490, Application US/10837217
Publication No. US20040203051A1
GENERAL INFORMATION:
APPLICANT: Simard, John J. L.
APPLICANT: Diamond, David C.
APPLICANT: Qiu, Zhiyong
APPLICANT: Lei, Xiang-Dong
TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF
FILE REFERENCE: MANK.022C2
CURRENT APPLICATION NUMBER: US/10/837,217
CURRENT FILING DATE: 2004-04-30
PRIOR APPLICATION NUMBER: 10/292,413
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: 60/336,968
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 979
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 490
LENGTH: 9
TYPE: PRT
ORGANISM: Himetobi P Virus (H1PV)
US-10-837-217-490
```

```
Query Match      91.5%; Score 43; DB 4; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db      1 TLGIAPIC 9
```

```
RESULT 11
US-10-603-062-2
Sequence 2, Application US/10603062
Publication No. US20040229809A1
GENERAL INFORMATION:
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
APPLICANT: Collins, Edward J.
APPLICANT: Hedley, Mary Lynn
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
PROTEIN
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
```

ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-603-062-2  
Query Match 91.5%; Score 43; DB 5; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9  
RESULT 12  
US-10-751-845-102  
; Sequence 102, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1998-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 102  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human Papilloma virus  
US-10-751-845-102  
Query Match 91.5%; Score 43; DB 5; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 TLGIAPIC 9  
Db 1 TLGIAPIC 9  
RESULT 13  
US-09-888-721-8  
; Sequence 8, Application US/09888721  
; Patent No. US20020132990A1  
; GENERAL INFORMATION:  
; APPLICANT: Huston, James S.  
; APPLICANT: Wils, Pierre  
; APPLICANT: Zhu, Quan  
; APPLICANT: Laurent, Olivier  
; APPLICANT: Marasco, Wayne A.  
; APPLICANT: Scherman, Daniel  
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID  
; FILE REFERENCE: 23611-A USA  
; CURRENT APPLICATION NUMBER: US/09/888,721  
; CURRENT FILING DATE: 2001-06-25  
; PRIOR APPLICATION NUMBER: 60/213,653  
; PRIOR FILING DATE: 2000-06-23  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 8  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-09-888-721-8  
Query Match 91.5%; Score 43; DB 3; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.25;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 TLGIAPIC 9  
Db 2 TLGIAPIC 10  
RESULT 14  
US-10-668-400-10  
; Sequence 10, Application US/10668400  
; Publication No. US20040058859A1  
; GENERAL INFORMATION:  
; APPLICANT: Bay, Sylvie  
; APPLICANT: Cantacuzene, Daniele  
; APPLICANT: Leclerc, Claude  
; APPLICANT: Lo-Man, Richard  
; TITLE OF INVENTION: MULTIPLE ANTIGEN GLYCOPOLYMER CARBOHYDRATE,  
; FILE REFERENCE: 102.166A-1  
; CURRENT APPLICATION NUMBER: US/10/668,400  
; CURRENT FILING DATE: 2003-09-23  
; PRIOR APPLICATION NUMBER: US 09/049,847  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: US 60/041,726  
; PRIOR FILING DATE: 1997-03-27  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 10  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
; FEATURE: MISC\_FEATURE  
; NAME/KEY: HPV16 E7 PEPTIDE  
; OTHER INFORMATION: HPV16 E7 PEPTIDE  
US-10-668-400-10  
Query Match 91.5%; Score 43; DB 4; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.25;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
||| ||| |||  
Db 2 TLGIVCPIC 10

RESULT 15  
US-10-484-063-18  
; Sequence 18, Application US/10484063  
; Publication No. US20050048467A1  
; GENERAL INFORMATION:  
; APPLICANT: SASTRY, K. JAGANNADHA  
; APPLICANT: TORTOLERO-LUNA, GUILLELMO  
; APPLICANT: FOLLEN, MICHELLE  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED  
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN  
; FILE REFERENCE: UTSC:560US  
; CURRENT APPLICATION NUMBER: US/10/484,063  
; CURRENT FILING DATE: 2004-01-16  
; PRIOR APPLICATION NUMBER: PCT/US02/23198  
; PRIOR FILING DATE: 2002-07-19  
; PRIOR APPLICATION NUMBER: 60/306,809  
; PRIOR FILING DATE: 2001-07-20  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-484-063-18

Query Match 91.5%; Score 43; DB 5; Length 10;  
Best Local Similarity 88.9%; Pred. No. 0.25;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
||| ||| |||  
Db 2 TLGIVCPIC 10

RESULT 16  
US-09-759-960-31  
; Sequence 31, Application US/09759960  
; Patent No. US20010006639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.

; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; NAME/KEY: Other  
; LOCATION: 1...1  
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
; OTHER INFORMATION: Arg, Lys, Gly, Gln, Asp, or Glu  
US-09-759-960-31

Query Match 91.5%; Score 43; DB 3; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
||| ||| |||  
Db 3 TLGIVCPIC 11

RESULT 17  
US-09-759-960-33  
; Sequence 33, Application US/09759960  
; Patent No. US20010006639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 33:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 11 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-09-759-960-33

Query Match 91.5%; Score 43; DB 3; Length 11;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 3 TLGIVCPIC 11

## RESULT 18

US-10-603-062-31

; Sequence 31, Application US/10603062  
; Publication No. US20040229809A1  
GENERAL INFORMATION:

APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN

NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997

ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154

INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:

NAME/KEY: Other  
LOCATION: 1...1  
OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
Arg, Lys, Gly, Gln, Asp, or Glu  
SEQUENCE DESCRIPTION: SEQ ID NO: 31:

US-10-603-062-31

Query Match

Best Local Similarity

Matches

8; Conservative

0; Mismatches

1; Indels

0; Gaps

0;

QY 1 TLGIVAPIC 9

DB 3 TLGIVCPIC 11

91.5%; Score 43; DB 5; Length 11;

88.9%; Pred. No. 0.27;

0; Mismatches

1; Indels

0; Gaps

0;

QY 1 TLGIVAPIC 9

DB 3 TLGIVCPIC 11

91.5%; Score 43; DB 5; Length 11;

88.9%; Pred. No. 0.27;

0; Mismatches

1; Indels

0; Gaps

0;

## RESULT 19

US-10-603-062-33

; Sequence 33, Application US/10603062  
; Publication No. US20040229809A1  
GENERAL INFORMATION:

APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn

TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN

NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997

ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154

INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 33:

US-10-603-062-33

Query Match

Best Local Similarity

Matches

8; Conservative

0; Mismatches

1; Indels

0; Gaps

0;

QY 1 TLGIVAPIC 9

DB 3 TLGIVCPIC 11

91.5%; Score 43; DB 5; Length 11;

88.9%; Pred. No. 0.27;

0; Mismatches

1; Indels

0; Gaps

0;

QY 1 TLGIVAPIC 9

DB 3 TLGIVCPIC 11

91.5%; Score 43; DB 5; Length 11;

88.9%; Pred. No. 0.27;

0; Mismatches

1; Indels

0; Gaps

0;

QY 1 TLGIVAPIC 9

DB 3 TLGIVCPIC 11

91.5%; Score 43; DB 5; Length 11;

88.9%; Pred. No. 0.27;

0; Mismatches

1; Indels

0; Gaps

0;

CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-16

Query Match 91.5%; Score 43; DB 3; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 4 TLGIIVCPIC 12

RESULT 21  
US-10-603-062-16  
Sequence 16; Application US/10603062  
Publication No. US20040229809A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 12 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
US-10-603-062-16

Query Match 91.5%; Score 43; DB 5; Length 12;  
Best Local Similarity 88.9%; Pred. No. 0.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIIVAPIC 9  
DB 4 TLGIIVCPIC 12

RESULT 22  
US-09-759-960-3  
Sequence 3; Application US/09759960  
Patent No. US2001000639A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
Chicz, Roman M.  
Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-3  
Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;



Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIICPIC 13

## RESULT 23

US-09-759-960-4  
Sequence 4, Application US/09759960  
Patent No. US20010006639A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/759,960  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/169,425  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-759-960-4

Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIICPIC 13

## RESULT 24

US-09-759-960-19  
Sequence 19, Application US/09759960  
Patent No. US20010006639A1  
GENERAL INFORMATION:  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
APPLICANT: Collins, Edward J.  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
TITLE OF INVENTION: PROTEIN

NUMBER OF SEQUENCES: 33

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish &amp; Richardson, P.C.

STREET: 225 Franklin Street

CITY: Boston

STATE: MA

COUNTRY: US

ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: Windows95

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/759,960

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/169,425

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Fraser, Janis K.

REGISTRATION NUMBER: 34,819

REFERENCE/DOCKET NUMBER: 08191/004002

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-542-5070

TELEFAX: 617-543-8906

TELEX: 200154

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 13 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

FEATURE:

NAME/KEY: Other

LOCATION: 1...1

OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,

US-09-759-960-19

Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIICPIC 13

## RESULT 25

US-09-909-460-110  
Sequence 110, Application US/09909460  
Publication No. US20020182258A1  
GENERAL INFORMATION:  
APPLICANT: Lumsford, Lynn B.  
APPLICANT: Putnam, David  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC  
TITLE OF INVENTION: ACID  
FILE REFERENCE: 08191/014001  
CURRENT APPLICATION NUMBER: US/09/909,460  
CURRENT FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 110  
LENGTH: 13  
TYPE: PRT  
ORGANISM: Human papilloma virus  
US-09-909-460-110

Query Match 91.5%; Score 43; DB 3; Length 13;

Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 26  
US-09-872-836-110  
; Sequence 110, Application US/09872836  
; Publication No. US20040142475A1  
; GENERAL INFORMATION:  
; APPLICANT: Barman, Shikha P.  
; APPLICANT: McKeever, Una  
; APPLICANT: Hedley, Mary Lynne  
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS  
; FILE REFERENCE: 08191-018001  
; CURRENT APPLICATION NUMBER: US/09/872,836  
; CURRENT FILING DATE: 2001-06-01  
; PRIOR APPLICATION NUMBER: US 60/208,830  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ. ID NOS: 120  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 110  
; LENGTH: 13  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-872-836-110

Query Match 91.5%; Score 43; DB 3; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 27  
US-10-603-062-3  
; Sequence 3, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; Chiciz, Roman M.  
; Collins, Edward J.  
; Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/603,062  
; FILING DATE: 24-Jun-2003  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/09/169,425C  
; FILING DATE: 09-OCT-1998  
; APPLICATION NUMBER: 60/061,657  
; FILING DATE: 09-OCT-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Frazer, Janis K.

REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-10-603-062-3

Query Match 91.5%; Score 43; DB 5; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 28  
US-10-603-062-4  
; Sequence 4, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; Chiciz, Roman M.  
; Collins, Edward J.  
; Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; PROTEIN

NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 13 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-10-603-062-4

Query Match 91.5%; Score 43; DB 5; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 29

US-10-603-062-19  
; Sequence 19, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; Chiciz, Roman M.  
; Collins, Edward J.  
; Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/603,062  
; FILING DATE: 24-Jun-2003  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/09/169,425C  
; FILING DATE: 09-OCT-1998  
; APPLICATION NUMBER: 60/061,657  
; FILING DATE: 09-OCT-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34, 819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 13 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FEATURE:  
; NAME/KEY: Other  
; LOCATION: 1..1  
; OTHER INFORMATION: where Xaa at position 1 is Met, Ala, Ser,  
; Arg, Lys, Gly, Gln, Asp, or Glu  
; SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
US-10-603-062-19

Query Match 91.5%; Score 43; DB 5; Length 13;  
Best Local Similarity 88.9%; Pred. No. 0.32;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

RESULT 30

## US-09-759-960-32

; Sequence 32, Application US/09759960  
; Patent No. US20010006639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chiciz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34, 819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 32:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 14 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-09-759-960-32

Query Match 91.5%; Score 43; DB 3; Length 14;  
Best Local Similarity 88.9%; Pred. No. 0.34;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 3 TLGIAPIC 11

## RESULT 31

US-10-603-062-32  
; Sequence 32, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; Chiciz, Roman M.  
; Collins, Edward J.  
; Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; PROTEIN  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804

```
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/603,062
FILING DATE: 24-Jun-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/169,425C
FILING DATE: 09-OCT-1998
APPLICATION NUMBER: 60/061,657
FILING DATE: 09-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Frazer, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 08191/004002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-543-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-10-603-062-32
```

```
Query Match      91.5%; Score 43; DB 5; Length 14;
Best Local Similarity 88.9%; Pred. No. 0.34;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db       3 TLGIAPIC 11
```

```
RESULT 32
US-10-648-547-71
; Sequence 71, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittleman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-71
```

```
Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db       3 TLGIAPIC 11
```

```
RESULT 33
US-10-648-547-84
```

```
; Sequence 84, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittleman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 84
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-84
```

```
Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db       7 TLGIAPIC 15
```

```
RESULT 34
US-10-476-570-52
; Sequence 52, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 84-98
US-10-476-570-52
```

```
Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TLGIAPIC 9
        |||||
Db       3 TLGIAPIC 11
```

```
RESULT 35
US-10-306-541-71
; Sequence 71, Application US/10306541
; Publication No. US20040171081A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 71
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-71

Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        3 TLGIAPIC 11

Db

RESULT 36
US-10-306-541-84
; Sequence 84, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 84
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-84

Query Match      91.5%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.37;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        7 TLGIAPIC 15

Db

RESULT 37
US-09-759-960-25
; Sequence 25, Application US/09759960
; Patent No. US2001000639A1
; GENERAL INFORMATION:
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; APPLICANT: Hedley, Mary Lynn
; APPLICANT: Collins, Edward J.
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
```

```

; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/759,960
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/169,425
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 08191/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-543-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-759-960-25

Query Match      91.5%; Score 43; DB 3; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        5 TLGIAPIC 13

Db

RESULT 38
US-09-909-460-109
; Sequence 109, Application US/09909460
; Publication No. US20020182258A1
; GENERAL INFORMATION:
; APPLICANT: Lumsford, Lynn B.
; APPLICANT: Putnam, David
; APPLICANT: Hedley, Mary Lynn
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC
; TITLE OF INVENTION: ACID
; FILE REFERENCE: 08191/014001
; CURRENT APPLICATION NUMBER: US/09/909,460
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-909-460-109

Query Match      91.5%; Score 43; DB 3; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
        |||||
        5 TLGIAPIC 13

Db

RESULT 39
US-09-872-836-109
; Sequence 109, Application US/09872836
```

```
/ Publication No. US20040142475A1
/ GENERAL INFORMATION:
/ APPLICANT: Barman, Shikha P.
/ APPLICANT: McKeever, Una
/ APPLICANT: Hedley, Mary Lynne
/ TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS
/ FILE REFERENCE: 08191-018001
/ CURRENT APPLICATION NUMBER: US/09/872,836
/ CURRENT FILING DATE: 2001-06-01
/ PRIOR APPLICATION NUMBER: US 60/208,830
/ PRIOR FILING DATE: 2000-06-02
/ NUMBER OF SEQ ID NOS: 120
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 109
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-872-836-109

Query Match          91.5%; Score 43; DB 3; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      5 TLGIAPIC 13

RESULT 40
US-10-603-062-25
/ Sequence 25, Application US/10603062
/ Publication No. US20040229809A1
/ GENERAL INFORMATION:
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ APPLICANT: Collins, Edward J.
/ TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7
/ PROTEIN
/ NUMBER OF SEQUENCES: 33
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Fish & Richardson, P.C.
/ STREET: 225 Franklin Street
/ CITY: Boston
/ STATE: MA
/ COUNTRY: US
/ ZIP: 02110-2804
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: Windows95
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/603,062
/ FILING DATE: 24-Jun-2003
/ FILE REFERENCE: 08191-018001
/ CURRENT APPLICATION NUMBER: US/09/169,425C
/ FILING DATE: 09-OCT-1998
/ APPLICATION NUMBER: 60/061,657
/ FILING DATE: 09-OCT-1997
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Fraeber, Janis K.
/ REGISTRATION NUMBER: 34,819
/ REFERENCE/DOCKET NUMBER: 08191/004002
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-542-5070
/ TELEFAX: 617-543-8906
/ TELEX: 200154
/ INFORMATION FOR SEQ ID NO: 25:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 16 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
```

```
/ MOLECULE TYPE: peptide
/ SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-10-603-062-25

Query Match          91.5%; Score 43; DB 5; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      5 TLGIAPIC 13

RESULT 41
US-10-758-970-109
/ Sequence 109, Application US/10758970
/ Publication No. US20050037086A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Hsu, Yung-Yueh
/ APPLICANT: Tyo, Michael
/ TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
/ FILE REFERENCE: 08191-012001
/ CURRENT APPLICATION NUMBER: US/10/758,970
/ CURRENT FILING DATE: 2004-01-16
/ PRIOR APPLICATION NUMBER: US/09/715,708A
/ PRIOR FILING DATE: 2000-11-17
/ PRIOR APPLICATION NUMBER: US 60/166,516
/ PRIOR FILING DATE: 1999-11-19
/ NUMBER OF SEQ ID NOS: 109
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 109
/ LENGTH: 16
/ TYPE: PRT
/ ORGANISM: Human papilloma virus
US-10-758-970-109

Query Match          91.5%; Score 43; DB 5; Length 16;
Best Local Similarity 88.9%; Pred. No. 0.39;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      5 TLGIAPIC 13

RESULT 42
US-10-751-845-69
/ Sequence 69, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ CURRENT FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 69
/ LENGTH: 17
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
US-10-751-845-69

Query Match          91.5%; Score 43; DB 5; Length 17;
```

Best Local Similarity 88.9%; Pred. No. 0.42;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 TLGIAPIC 9  
Db 5 TLGIAPIC 13

## RESULT 43

US-10-476-570-58  
Sequence 58, Application US/10476570  
Publication No. US20040170644A1  
GENERAL INFORMATION:  
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE  
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE  
APPLICANT: MAILLARD, Bernard  
APPLICANT: BOURGAULT-VILLADA, Isabelle  
APPLICANT: GUILLET, Jean-Gerard  
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7  
TITLE OF INVENTION: papillomavirus proteins and uses thereof  
FILE REFERENCE: 45636-5071-US  
CURRENT APPLICATION NUMBER: US/10/476,570  
CURRENT FILING DATE: 2003-11-04  
PRIOR APPLICATION NUMBER: PCT/FR02/01533  
PRIOR FILING DATE: 2002-05-03  
PRIOR APPLICATION NUMBER: FR 01 05980  
PRIOR FILING DATE: 2001-05-04  
NUMBER OF SEQ ID NOS: 63  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 58  
LENGTH: 19  
TYPE: PRT  
ORGANISM: artificial sequence  
OTHER INFORMATION: Description of the artificial sequence: peptide E7 79-97  
US-10-476-570-58

Query Match 91.5%; Score 43; DB 4; Length 19;  
Best Local Similarity 88.9%; Pred. No. 0.46;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 8 TLGIAPIC 16

## RESULT 44

US-10-858-384-18  
Sequence 18, Application US/10858384  
Publication No. US20050033025A1  
GENERAL INFORMATION:  
APPLICANT: CHOPPIN, JEANNINE  
APPLICANT: BOURGAULT-VILLADA, ISABELLE  
APPLICANT: GUILLET, JEAN-GERARD  
APPLICANT: CONNAN, FRANCES  
APPLICANT: FERRIES, ESTELLE  
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE B6 PROTEIN  
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE  
FILE REFERENCE: 0508-1037-1  
CURRENT APPLICATION NUMBER: US/10/858,384  
CURRENT FILING DATE: 2004-06-02  
PRIOR APPLICATION NUMBER: FR 9907012  
PRIOR FILING DATE: 1999-06-03  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: PatentIn Ver. 3.2  
SEQ ID NO 18  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Artificial Sequence  
OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment

OTHER INFORMATION: for E7 of HPV  
US-10-858-384-18

Query Match 91.5%; Score 43; DB 5; Length 19;  
Best Local Similarity 88.9%; Pred. No. 0.46;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 8 TLGIAPIC 16

## RESULT 45

US-10-484-063-19  
Sequence 19, Application US/10484063  
Publication No. US20050048467A1  
GENERAL INFORMATION:  
APPLICANT: SASTRY, K. JAGANNADHA  
APPLICANT: TORTOLERO-LUNA, GUILLERMO  
APPLICANT: FOLLER, MICHELE  
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED  
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN  
FILE REFERENCE: UTSC:560US  
CURRENT APPLICATION NUMBER: US/10/484,063  
CURRENT FILING DATE: 2004-01-16  
PRIOR APPLICATION NUMBER: PCT/US02/23198  
PRIOR FILING DATE: 2002-07-19  
PRIOR APPLICATION NUMBER: 60/306,809  
PRIOR FILING DATE: 2001-07-20  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 19  
LENGTH: 20  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-484-063-19

Query Match 91.5%; Score 43; DB 5; Length 20;  
Best Local Similarity 88.9%; Pred. No. 0.46;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIAPIC 9  
Db 12 TLGIAPIC 20

## RESULT 46

US-10-432-465-51  
Sequence 51, Application US/10432465  
Publication No. US20040091479A1  
GENERAL INFORMATION:  
APPLICANT: Nieland, John  
APPLICANT: Kaufmann, Andreas  
APPLICANT: Kather, Angela  
APPLICANT: Schinz, Manuela  
TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1  
TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and  
FILE REFERENCE: 50125/077001  
CURRENT APPLICATION NUMBER: US/10/432,465  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: PCT/EP01/14037  
PRIOR FILING DATE: 2001-11-30  
PRIOR APPLICATION NUMBER: DE 10059631.2  
PRIOR FILING DATE: 2000-12-01  
NUMBER OF SEQ ID NOS: 116  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 51  
LENGTH: 21  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-432-465-51

Query Match 91.5%; Score 43; DB 4; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.51;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 9 TLGIAPIC 17

RESULT 47  
US-10-476-570-18  
; Sequence 18, Application US/10476570  
; Publication No. US20040170644A1  
; GENERAL INFORMATION:  
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE  
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE  
; APPLICANT: MAILLIERE, Bernard  
; APPLICANT: BOURGAULT-VILLADA, Isabelle  
; APPLICANT: POUEVILLE-MORATILLE, Sandra  
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7  
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof  
; FILE REFERENCE: 45636-5071-US  
; CURRENT APPLICATION NUMBER: US/10/476,570  
; CURRENT FILING DATE: 2003-11-04  
; PRIOR APPLICATION NUMBER: PCT/FR02/01533  
; PRIOR FILING DATE: 2002-05-03  
; PRIOR APPLICATION NUMBER: FR 01 05980  
; PRIOR FILING DATE: 2001-05-04  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 78-98  
US-10-476-570-18

Query Match 91.5%; Score 43; DB 4; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.51;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 9 TLGIAPIC 17

RESULT 48  
US-10-890-526-76  
; Sequence 76, Application US/10890526  
; Publication No. US20040258708A1  
; GENERAL INFORMATION:  
; APPLICANT: Jochemus, Ingrid  
; APPLICANT: Nieland, John  
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the  
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and  
; FILE REFERENCE: 50125/036001  
; CURRENT APPLICATION NUMBER: US/10/890,526  
; CURRENT FILING DATE: 2004-07-13  
; PRIOR APPLICATION NUMBER: US/09/980,177  
; PRIOR FILING DATE: 2002-05-02  
; PRIOR APPLICATION NUMBER: PCT/EP00/05006  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: DE 19925199.1  
; PRIOR FILING DATE: 1999-06-01  
; NUMBER OF SEQ ID NOS: 77  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 76  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16

US-10-890-526-76  
Query Match 91.5%; Score 43; DB 5; Length 21;  
Best Local Similarity 88.9%; Pred. No. 0.51;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 9 TLGIAPIC 17

RESULT 49  
US-09-759-960-6  
; Sequence 6, Application US/09759960  
; Patent No. US2001000639A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; APPLICANT: Collins, Edward J.  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Fish & Richardson, P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: US  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows95  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/759,960  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/169,425  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fraser, Janis K.  
; REGISTRATION NUMBER: 34,819  
; REFERENCE/DOCKET NUMBER: 08191/004002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-542-5070  
; TELEFAX: 617-543-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 38 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: internal  
US-09-759-960-6

Query Match 91.5%; Score 43; DB 3; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.92;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
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RESULT 50  
US-10-603-062-6  
; Sequence 6, Application US/10603062  
; Publication No. US20040229809A1  
; GENERAL INFORMATION:  
; APPLICANT: Urban, Robert G.



Chicz, Roman M.  
Collins, Edward J.  
Hedley, Mary Lynn  
TITLE OF INVENTION: IMMUNOGENIC PEPTIDES FROM THE HPV E7  
PROTEIN  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fleh & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/603,062  
FILING DATE: 24-Jun-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/169,425C  
FILING DATE: 09-OCT-1998  
APPLICATION NUMBER: 60/061,657  
FILING DATE: 09-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Frazer, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/004002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-543-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 38 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-10-603-062-6

Query Match 91.5%; Score 43; DB 5; Length 38;  
Best Local Similarity 88.9%; Pred. No. 0.92;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 TLGI VAPIC 9  
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Db 30 TLGI VCPIC 38

Search completed: May 5, 2006, 08:06:24  
Job time : 65 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds  
(without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-20  
Perfect score: 47  
Sequence: 1 TLGIVAPIC 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues  
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
1: Published Applications\_AA\_New:\*  
2: /SIDS5/ptodata/1/pubpaa/US08\_NEW\_PUB.pep1:\*  
3: /SIDS5/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	43	91.5	98	11	US-11-179-478-4
6	43	91.5	248	9	US-10-530-253-1
7	43	91.5	248	9	US-10-530-253-3
8	43	91.5	248	9	US-10-530-253-5
9	43	91.5	248	9	US-10-530-253-7
10	43	91.5	248	9	US-10-530-253-9
11	43	91.5	256	9	US-10-530-253-11
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13	43	91.5	516	11	US-11-087-099-6982
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18	33	70.2	297	11	US-11-190-364-25
19	33	70.2	297	11	US-11-190-364-26
20	33	70.2	297	11	US-11-147-780-25
21	33	70.2	297	11	US-11-147-780-26

22	33	70.2	339	9	US-10-509-773-6	Sequence 6, Appl1
23	33	70.2	454	11	US-11-045-004-131	Sequence 131, App
24	33	70.2	471	11	US-11-188-298-5536	Sequence 5636, Ap
25	33	70.2	599	11	US-11-188-298-13779	Sequence 13779, A
26	32	68.1	10	9	US-10-530-061-662	Sequence 662, Appl
27	32	68.1	203	9	US-10-118-590-12	Sequence 12, Appl
28	32	68.1	224	11	US-11-096-568A-23843	Sequence 23843, A
29	32	68.1	225	11	US-11-096-568A-23842	Sequence 23842, A
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33	32	68.1	291	11	US-11-138-949-8	Sequence 8, Appl1
34	32	68.1	333	11	US-11-040-218-75	Sequence 75, Appl1
35	32	68.1	347	11	US-11-040-218-77	Sequence 79, Appl1
36	32	68.1	364	11	US-11-040-218-79	Sequence 81, Appl1
37	32	68.1	378	11	US-11-040-218-81	Sequence 1048, Ap
38	32	68.1	406	9	US-10-467-657-1048	Sequence 10159, A
39	32	68.1	428	11	US-11-188-298-10159	Sequence 4680, Ap
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43	32	68.1	1167	11	US-11-188-298-19329	Sequence 6, Appl1
44	32	68.1	1167	9	US-10-942-072-6	Sequence 13, Appl1
45	32	68.1	1167	9	US-10-942-072-13	Sequence 11, Appl1
46	32	68.1	1168	9	US-10-942-072-11	Sequence 30, Appl1
47	31	66.0	99	9	US-10-530-253-30	Sequence 37, Appl1
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51	31	66.0	214	11	US-11-098-688-10832	Sequence 58, Appl1
52	31	66.0	235	9	US-10-873-528-58	Sequence 59, Appl1
53	31	66.0	235	9	US-10-873-528-59	Sequence 12714, A
54	31	66.0	285	11	US-11-188-298-12714	Sequence 13, Appl1
55	31	66.0	306	11	US-11-057-012-13	Sequence 9, Appl1
56	31	66.0	321	11	US-11-057-012-9	Sequence 12761, A
57	31	66.0	326	11	US-11-096-568A-12761	Sequence 5040, Ap
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60	31	66.0	368	11	US-11-087-099-12298	Sequence 11306, A
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71	31	66.0	490	11	US-11-172-740-1300	Sequence 8, Appl1
72	31	66.0	497	9	US-10-918-857-8	Sequence 74, Appl1
73	31	66.0	503	9	US-10-873-528-74	Sequence 5709, Ap
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77	31	66.0	718	11	US-10-918-857-2	Sequence 5510, Ap
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79	31	66.0	790	9	US-10-922-166-20	Sequence 20, Appl1
80	31	66.0	845	9	US-10-725-475-18	Sequence 18, Appl1
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82	31	66.0	845	9	US-10-922-166-15263	Sequence 15, Appl1
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85	30	63.8	188	9	US-11-096-568A-4311	Sequence 4311, Ap
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91	30	63.8	291	11	US-11-079-663-8243	Sequence 7714, Ap
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96	30	63.8	442	11	US-11-018-868-49	Sequence 49, Appl
97	30	63.8	488	11	US-11-172-740-1298	Sequence 1298, Ap
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213	28	59.6	305	11	US-10-455-772-330	Sequence 330, App
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227	28	59.6	384	11	US-11-096-568A-22402	Sequence 22402, A
228	28	59.6	390	11	US-11-096-568A-22401	Sequence 22401, A
229	28	59.6	398	11	US-11-190-188-5	Sequence 5, Appl
230	28	59.6	399	11	US-11-096-568A-28193	Sequence 28193, A
231	28	59.6	406	11	US-11-096-568A-11354	Sequence 11354, A
232	28	59.6	430	11	US-11-096-568A-11353	Sequence 11353, A
233	28	59.6	432	9	US-10-063-703-112	Sequence 112, App
234	28	59.6	432	9	US-10-194-487-330	Sequence 330, App
235	28	59.6	432	9	US-10-195-883-330	Sequence 330, App
236	28	59.6	432	9	US-10-195-883-330	Sequence 330, App
237	28	59.6	432	9	US-10-195-883-330	Sequence 330, App
238	28	59.6	432	11	US-11-103-240-112	Sequence 112, App
239	28	59.6	432	11	US-11-103-240-112	Sequence 112, App
240	28	59.6	432	11	US-11-103-240-112	Sequence 112, App

241	28	59.6	435	11	US-11-183-914-6	Sequence 6, Appl1	314	27	57.4	263	11	US-11-188-298-2266	Sequence 2266, Ap
242	28	59.6	436	11	US-11-229-484-17	Sequence 17, Appl1	315	27	57.4	265	11	US-11-096-568A-20319	Sequence 20319, A
243	28	59.6	437	11	US-11-096-568A-22400	Sequence 22400, A	316	27	57.4	265	11	US-11-188-298-5578	Sequence 5578, Ap
244	28	59.6	437	11	US-11-096-568A-11352	Sequence 11352, A	317	27	57.4	266	11	US-11-096-568A-6272	Sequence 6272, Ap
245	28	59.6	474	11	US-11-188-298-3241	Sequence 3241, Ap	318	27	57.4	268	11	US-11-087-099-1499	Sequence 1499, Ap
246	28	59.6	497	11	US-11-188-298-15019	Sequence 15019, A	319	27	57.4	268	11	US-11-096-568A-20318	Sequence 20318, A
247	28	59.6	506	11	US-11-096-568A-28192	Sequence 28192, A	320	27	57.4	270	9	US-10-745-586-54	Sequence 54, Appl1
248	28	59.6	510	11	US-11-188-298-17168	Sequence 17168, A	321	27	57.4	279	11	US-11-172-740-1179	Sequence 1179, Ap
249	28	59.6	553	11	US-11-188-298-5727	Sequence 5727, Ap	322	27	57.4	281	11	US-11-087-099-5813	Sequence 5813, Ap
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251	28	59.6	664	11	US-11-080-991-40	Sequence 40, Appl1	324	27	57.4	288	11	US-11-188-298-13609	Sequence 13609, A
252	28	59.6	708	9	US-10-131-826A-298	Sequence 298, App	325	27	57.4	290	9	US-10-506-454-240	Sequence 240, App
253	28	59.6	708	9	US-10-973-115B-298	Sequence 298, App	326	27	57.4	291	9	US-10-467-657-3890	Sequence 3890, App
254	28	59.6	708	9	US-10-137-873A-298	Sequence 298, App	327	27	57.4	292	11	US-11-188-298-11448	Sequence 11448, Ap
255	28	59.6	708	9	US-10-152-370-298	Sequence 298, App	328	27	57.4	292	11	US-11-188-298-2668	Sequence 2668, Ap
256	28	59.6	708	11	US-11-290-153-298	Sequence 298, App	329	27	57.4	293	11	US-11-188-298-3130	Sequence 3130, Ap
257	28	59.6	884	9	US-10-995-561-786	Sequence 786, App	330	27	57.4	293	11	US-11-188-298-6274	Sequence 6274, Ap
258	28	59.6	895	11	US-11-150-406-2	Sequence 2, Appl1	331	27	57.4	300	11	US-11-188-298-9196	Sequence 9196, Ap
259	28	59.6	920	9	US-10-821-234-1129	Sequence 1129, App	332	27	57.4	305	11	US-11-188-298-12809	Sequence 12809, A
260	28	59.6	1258	11	US-11-033-039-930	Sequence 930, App	333	27	57.4	306	9	US-10-454-437-408	Sequence 408, App
261	28	59.6	1404	9	US-10-995-561-526	Sequence 526, App	334	27	57.4	311	11	US-11-172-740-11781	Sequence 11781, Ap
262	28	59.6	1581	11	US-11-090-439-24	Sequence 24, Appl1	335	27	57.4	311	11	US-11-172-740-11783	Sequence 11783, Ap
263	28	59.6	1581	11	US-11-090-439-26	Sequence 26, Appl1	337	27	57.4	313	11	US-11-172-740-11780	Sequence 11780, Ap
264	28	59.6	1588	9	US-10-995-561-527	Sequence 527, App	338	27	57.4	313	11	US-11-172-740-11782	Sequence 11782, Ap
265	28	59.6	2640	9	US-11-087-099-11966	Sequence 5, Appl1	339	27	57.4	314	11	US-11-188-298-12809	Sequence 12809, A
266	28	59.6	2640	11	US-10-821-234-1262	Sequence 11966, A	340	27	57.4	316	11	US-11-072-512-2961	Sequence 2961, Ap
267	28	59.6	2657	9	US-10-530-061-369	Sequence 1262, Ap	341	27	57.4	329	11	US-11-188-298-19113	Sequence 19113, A
268	27	57.4	9	9	US-10-530-061-369	Sequence 369, App	342	27	57.4	330	11	US-11-096-568A-16554	Sequence 16554, A
269	27	57.4	15	9	US-10-530-061-3110	Sequence 909, App	343	27	57.4	330	11	US-11-096-568A-21945	Sequence 21945, A
270	27	57.4	32	9	US-10-895-064-2806	Sequence 2110, Ap	344	27	57.4	331	8	US-10-511-455-31	Sequence 31, Appl1
271	27	57.4	32	11	US-11-129-741-2806	Sequence 2806, Ap	345	27	57.4	337	11	US-11-087-099-1202	Sequence 1202, Ap
272	27	57.4	46	11	US-11-004-399-3263	Sequence 3263, Ap	346	27	57.4	338	9	US-10-514-534-6	Sequence 1653, A
273	27	57.4	84	11	US-11-096-568A-2722	Sequence 2722, Ap	347	27	57.4	342	9	US-10-498-026-116	Sequence 16, Appl1
274	27	57.4	84	11	US-11-079-463-10281	Sequence 10281, A	348	27	57.4	351	11	US-11-087-099-1652	Sequence 1652, Ap
275	27	57.4	87	9	US-10-506-454-475	Sequence 475, App	349	27	57.4	351	11	US-11-188-298-3224	Sequence 3224, Ap
276	27	57.4	106	11	US-11-144-947-341	Sequence 341, App	350	27	57.4	356	11	US-11-188-298-8050	Sequence 8050, Ap
277	27	57.4	112	11	US-11-087-099-5048	Sequence 5048, App	351	27	57.4	368	11	US-11-188-298-2129	Sequence 2129, Ap
278	27	57.4	113	11	US-11-096-568A-25935	Sequence 25935, A	352	27	57.4	370	11	US-11-096-568A-8901	Sequence 8901, Ap
279	27	57.4	123	11	US-11-096-568A-1061	Sequence 1061, Ap	353	27	57.4	372	11	US-11-087-099-1129	Sequence 1129, Ap
280	27	57.4	123	11	US-11-096-568A-26748	Sequence 26748, A	354	27	57.4	372	11	US-11-087-099-1557	Sequence 1597, Ap
281	27	57.4	136	9	US-10-793-626-1062	Sequence 1062, Ap	355	27	57.4	372	11	US-11-096-568A-8902	Sequence 8902, Ap
282	27	57.4	136	9	US-10-506-454-1659	Sequence 1659, App	356	27	57.4	372	11	US-11-096-568A-8900	Sequence 8900, Ap
283	27	57.4	137	9	US-10-467-657-1056	Sequence 1056, App	357	27	57.4	372	11	US-11-096-568A-8902	Sequence 8902, Ap
284	27	57.4	142	9	US-10-467-657-4330	Sequence 4330, App	358	27	57.4	375	11	US-11-096-568A-12510	Sequence 12510, A
285	27	57.4	148	9	US-11-096-568A-1060	Sequence 1060, App	359	27	57.4	382	11	US-11-087-099-2003	Sequence 20081, A
286	27	57.4	150	11	US-11-096-568A-26747	Sequence 26747, A	361	27	57.4	387	11	US-11-188-298-20681	Sequence 7245, App
287	27	57.4	150	11	US-11-188-298-15023	Sequence 15023, A	362	27	57.4	391	11	US-11-055-822-652	Sequence 652, App
288	27	57.4	165	11	US-11-096-568A-11760	Sequence 11760, A	363	27	57.4	391	11	US-11-045-004-2637	Sequence 2637, App
289	27	57.4	168	11	US-11-010-239-16	Sequence 16, Appl1	364	27	57.4	392	11	US-11-096-568A-16552	Sequence 16552, A
290	27	57.4	170	11	US-11-096-568A-11759	Sequence 11759, A	365	27	57.4	393	11	US-11-188-298-5111	Sequence 5111, App
291	27	57.4	175	9	US-10-873-528-97	Sequence 97, Appl1	366	27	57.4	395	11	US-11-079-463-6780	Sequence 6780, Ap
292	27	57.4	175	11	US-11-079-463-8883	Sequence 8883, App	367	27	57.4	406	11	US-11-096-568A-8899	Sequence 8899, App
293	27	57.4	189	9	US-10-821-234-1332	Sequence 1432, App	368	27	57.4	406	11	US-11-188-298-10957	Sequence 10957, A
294	27	57.4	189	9	US-10-878-556A-193	Sequence 193, App	369	27	57.4	408	11	US-11-188-298-3421	Sequence 3421, App
295	27	57.4	190	11	US-11-188-298-17686	Sequence 17686, A	370	27	57.4	413	11	US-11-096-568A-26633	Sequence 26633, A
296	27	57.4	191	11	US-11-096-568A-17486	Sequence 17486, A	371	27	57.4	419	9	US-10-821-234-1504	Sequence 1504, App
297	27	57.4	192	9	US-10-514-534-9	Sequence 9, Appl1	372	27	57.4	420	9	US-10-506-454-294	Sequence 294, App
298	27	57.4	195	11	US-11-087-099-1190	Sequence 3190, App	373	27	57.4	425	11	US-11-079-463-5807	Sequence 5807, App
299	27	57.4	199	9	US-10-467-657-4532	Sequence 4532, App	374	27	57.4	437	9	US-10-131-826A-466	Sequence 466, App
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302	27	57.4	205	11	US-11-096-568A-11758	Sequence 11758, A	377	27	57.4	437	9	US-10-218-784-162	Sequence 162, App
303	27	57.4	205	11	US-11-096-568A-21947	Sequence 21947, A	378	27	57.4	437	9	US-10-219-061-162	Sequence 162, App
304	27	57.4	221	11	US-11-079-463-9767	Sequence 9767, App	379	27	57.4	437	9	US-10-219-062-162	Sequence 162, App
305	27	57.4	221	11	US-11-096-568A-6274	Sequence 6274, App	380	27	57.4	437	9	US-10-219-064-162	Sequence 162, App
306	27	57.4	229	9	US-10-506-454-1065	Sequence 1065, App	381	27	57.4	437	9	US-10-233-134-162	Sequence 162, App
307	27	57.4	247	11	US-11-096-568A-6273	Sequence 6273, App	382	27	57.4	437	9	US-10-137-873A-466	Sequence 466, App
308	27	57.4	252	11	US-11-096-568A-8513	Sequence 8513, App	383	27	57.4	437	9	US-10-152-370-466	Sequence 466, App
309	27	57.4	254	7	US-09-995-493-136	Sequence 8, Appl1	384	27	57.4	437	11	US-11-290-153-466	Sequence 466, App
310	27	57.4	255	11	US-10-514-534-8	Sequence 8512, App	385	27	57.4	458	11	US-11-087-099-5410	Sequence 5410, App
311	27	57.4	255	9	US-11-096-568A-8512	Sequence 8511, App	386	27	57.4				
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313	27	57.4	259	11	US-11-096-568A-8511								

387	27	57.4	459	11	US-11-188-298-19083	Sequence 19083, A	460	27	57.4	1043	9	US-10-392-23A-34	Sequence 34, Appl
388	27	57.4	462	11	US-11-188-298-2073	Sequence 2073, Ap	461	27	57.4	1092	11	US-11-087-099-6350	Sequence 6350, Ap
389	27	57.4	469	11	US-11-087-099-1004	Sequence 1004, Ap	462	27	57.4	1092	11	US-11-188-298-5187	Sequence 5187, Ap
390	27	57.4	472	11	US-11-087-099-5482	Sequence 5482, Ap	463	27	57.4	1124	11	US-11-090-617-688	Sequence 688, App
391	27	57.4	474	11	US-11-087-099-7002	Sequence 7002, Ap	464	27	57.4	1127	9	US-10-784-004-758	Sequence 758, App
392	27	57.4	474	11	US-11-188-298-17451	Sequence 17451, A	465	27	57.4	1827	9	US-10-784-004-761	Sequence 761, App
393	27	57.4	476	11	US-11-087-099-3599	Sequence 3599, Ap	466	27	57.4	1827	9	US-10-784-004-1102	Sequence 1102, Ap
394	27	57.4	476	11	US-11-087-099-8740	Sequence 8749, Ap	467	27	57.4	2202	8	US-10-488-015-12	Sequence 12, Appl
395	27	57.4	476	11	US-11-188-298-8479	Sequence 8479, Ap	468	27	57.4	2287	11	US-11-188-298-8622	Sequence 8622, Ap
396	27	57.4	477	11	US-11-096-568A-9174	Sequence 9174, Ap	469	27	57.4	2420	11	US-11-188-298-1545	Sequence 1545, Ap
397	27	57.4	486	11	US-11-096-568A-26632	Sequence 26632, A	470	27	57.4	2426	11	US-11-188-298-15486	Sequence 15486, A
398	27	57.4	490	11	US-11-188-298-17007	Sequence 17007, A	471	26.5	56.4	217	11	US-11-019-711-136	Sequence 136, App
399	27	57.4	493	11	US-11-096-568A-26631	Sequence 26631, A	472	26.5	56.4	227	11	US-11-151-601-36	Sequence 36, Appl
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401	27	57.4	494	11	US-11-096-568A-28386	Sequence 28386, A	474	26.5	56.4	249	11	US-11-151-601-28	Sequence 28, Appl
402	27	57.4	494	11	US-11-188-298-12254	Sequence 12254, A	475	26.5	56.4	251	11	US-11-151-601-27	Sequence 27, Appl
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404	27	57.4	498	11	US-11-096-568A-6429	Sequence 6429, Ap	477	26	55.3	10	9	US-10-530-061-309	Sequence 309, App
405	27	57.4	502	11	US-11-045-004-2038	Sequence 2038, Ap	478	26	55.3	10	9	US-10-530-061-310	Sequence 310, App
406	27	57.4	505	11	US-11-188-298-16466	Sequence 16466, A	479	26	55.3	15	9	US-10-530-061-658	Sequence 658, App
407	27	57.4	505	11	US-11-188-298-18678	Sequence 18678, A	480	26	55.3	15	9	US-10-530-061-1734	Sequence 1734, Ap
408	27	57.4	506	11	US-11-188-298-12510	Sequence 12510, A	481	26	55.3	24	11	US-11-004-339-2786	Sequence 2786, Ap
409	27	57.4	506	11	US-11-188-298-17293	Sequence 17293, A	482	26	55.3	39	9	US-10-510-959-1109	Sequence 1109, App
410	27	57.4	509	9	US-10-506-454-275	Sequence 275, App	483	26	55.3	46	11	US-11-264-096-286	Sequence 286, App
411	27	57.4	512	11	US-11-079-463-10078	Sequence 10078, A	484	26	55.3	56	11	US-11-264-096-286	Sequence 286, App
412	27	57.4	513	11	US-11-096-568A-6428	Sequence 6428, Ap	485	26	55.3	58	9	US-10-467-657-3558	Sequence 3558, Ap
413	27	57.4	515	11	US-11-096-568A-9173	Sequence 9173, Ap	486	26	55.3	58	9	US-10-467-657-6472	Sequence 6472, Ap
414	27	57.4	515	11	US-11-096-568A-9176	Sequence 9176, Ap	487	26	55.3	60	9	US-10-467-657-4122	Sequence 4122, Ap
415	27	57.4	526	11	US-11-096-568A-6427	Sequence 6427, Ap	488	26	55.3	74	11	US-11-264-096-2236	Sequence 2236, Ap
416	27	57.4	526	11	US-11-188-298-6566	Sequence 6566, Ap	489	26	55.3	71	11	US-11-144-947-408	Sequence 1876, Ap
417	27	57.4	526	11	US-11-188-298-8364	Sequence 8364, Ap	490	26	55.3	83	11	US-11-264-096-1876	Sequence 145, App
418	27	57.4	530	11	US-11-291-426-4	Sequence 4, Appl	491	26	55.3	84	11	US-11-050-857-145	Sequence 145, App
419	27	57.4	535	11	US-11-291-426-2	Sequence 2, Appl	492	26	55.3	84	11	US-11-051-720-1412	Sequence 1412, Ap
420	27	57.4	547	11	US-11-096-568A-28385	Sequence 28385, A	493	26	55.3	86	9	US-10-467-657-7346	Sequence 7346, Ap
421	27	57.4	556	11	US-11-188-298-13497	Sequence 13497, A	494	26	55.3	86	9	US-11-050-857-146	Sequence 146, App
422	27	57.4	560	11	US-11-188-298-15439	Sequence 15439, A	495	26	55.3	90	11	US-11-050-857-1413	Sequence 1413, Ap
423	27	57.4	562	11	US-11-079-463-9132	Sequence 9132, Ap	496	26	55.3	90	11	US-11-051-720-1413	Sequence 145, App
424	27	57.4	575	11	US-11-096-568A-1849	Sequence 1849, Ap	497	26	55.3	90	11	US-11-050-857-144	Sequence 144, App
425	27	57.4	575	11	US-11-096-568A-27193	Sequence 27193, A	498	26	55.3	93	11	US-11-050-857-141	Sequence 141, Ap
426	27	57.4	575	11	US-11-188-298-10084	Sequence 10084, A	499	26	55.3	93	11	US-11-051-720-1411	Sequence 333, App
427	27	57.4	611	11	US-11-096-568A-1848	Sequence 1848, Ap	500	26	55.3	96	11	US-11-079-463-833	Sequence 5838, Ap
428	27	57.4	611	11	US-11-096-568A-27192	Sequence 27192, A	501	26	55.3	96	11	US-11-079-463-838	Sequence 34, Appl
429	27	57.4	619	11	US-11-019-711-34	Sequence 34, Appl	502	26	55.3	99	9	US-10-530-253-34	Sequence 1332, Ap
430	27	57.4	620	8	US-10-505-928-284	Sequence 284, App	503	26	55.3	100	11	US-11-264-096-1332	Sequence 40, Appl
431	27	57.4	633	11	US-11-188-298-18914	Sequence 18914, A	504	26	55.3	104	9	US-10-530-253-40	Sequence 37, Appl
432	27	57.4	637	11	US-11-096-568A-1847	Sequence 1847, Ap	505	26	55.3	105	9	US-10-530-253-27	Sequence 32, Appl
433	27	57.4	637	11	US-11-096-568A-27191	Sequence 27191, A	506	26	55.3	106	9	US-10-530-253-32	Sequence 32, Appl
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435	27	57.4	674	9	US-10-501-035-308	Sequence 308, App	508	26	55.3	110	11	US-11-050-857-1126	Sequence 1126, Ap
436	27	57.4	680	9	US-10-915-002-190	Sequence 190, App	509	26	55.3	110	11	US-11-051-720-1741	Sequence 1741, Ap
437	27	57.4	681	11	US-11-096-568A-28384	Sequence 28384, A	510	26	55.3	110	11	US-11-043-806-534	Sequence 534, App
438	27	57.4	684	11	US-11-098-686-10193	Sequence 10193, A	511	26	55.3	112	11	US-11-134-241-25	Sequence 25, Appl
439	27	57.4	706	8	US-10-505-928-131	Sequence 131, App	512	26	55.3	114	11	US-11-250-759-289	Sequence 289, App
440	27	57.4	708	9	US-10-636-320-2	Sequence 2, Appl	513	26	55.3	115	11	US-11-072-512-3840	Sequence 3840, Ap
441	27	57.4	736	11	US-11-087-099-271	Sequence 271, App	514	26	55.3	115	11	US-11-250-759-290	Sequence 290, App
442	27	57.4	737	9	US-10-055-877-156	Sequence 156, App	515	26	55.3	125	11	US-11-098-666-70	Sequence 70, Appl
443	27	57.4	737	11	US-11-072-512-2689	Sequence 2689, Ap	516	26	55.3	135	9	US-10-506-454-630	Sequence 630, App
444	27	57.4	759	11	US-11-188-298-5750	Sequence 5750, App	517	26	55.3	141	9	US-10-218-784-16	Sequence 16, Appl
445	27	57.4	759	11	US-11-188-298-6732	Sequence 6732, Ap	518	26	55.3	141	9	US-10-219-061-16	Sequence 16, Appl
446	27	57.4	759	11	US-11-188-298-8543	Sequence 8543, Ap	519	26	55.3	141	9	US-10-219-061-16	Sequence 16, Appl
447	27	57.4	759	11	US-11-188-298-20980	Sequence 20980, A	520	26	55.3	141	9	US-10-219-061-16	Sequence 16, Appl
448	27	57.4	760	8	US-10-505-928-50	Sequence 50, Appl	521	26	55.3	141	9	US-10-233-134-16	Sequence 16, Appl
449	27	57.4	809	11	US-11-188-298-13996	Sequence 13996, A	522	26	55.3	141	11	US-11-050-857-869	Sequence 969, App
450	27	57.4	810	9	US-10-506-454-1176	Sequence 1176, Ap	523	26	55.3	141	11	US-11-051-720-1708	Sequence 1708, Ap
451	27	57.4	842	11	US-11-096-568A-34417	Sequence 34417, A	524	26	55.3	141	11	US-11-043-806-486	Sequence 486, App
452	27	57.4	856	11	US-11-054-281-116	Sequence 116, App	525	26	55.3	141	11	US-11-250-759-215	Sequence 215, App
453	27	57.4	868	11	US-11-096-568A-34416	Sequence 34416, A	526	26	55.3	144	11	US-11-264-096-2071	Sequence 2071, A
454	27	57.4	888	11	US-11-188-298-522	Sequence 522, App	527	26	55.3	145	11	US-11-096-568A-18721	Sequence 18721, A
455	27	57.4	899	8	US-10-505-928-823	Sequence 823, App	528	26	55.3	148	11	US-11-087-099-3712	Sequence 3712, Ap
456	27	57.4	918	9	US-10-995-561-696	Sequence 696, App	529	26	55.3	148	11	US-11-188-298-16214	Sequence 16214, A
457	27	57.4	932	11	US-11-071-581-1	Sequence 1, Appl	530	26	55.3	153	11	US-11-172-740-2342	Sequence 2342, Ap
458	27	57.4	970	11	US-11-096-568A-34415	Sequence 34415, A	531	26	55.3	156	11	US-11-188-298-1694	Sequence 3694, Ap
459	27	57.4	1042	11	US-11-067-811-1	Sequence 1, Appl	532	26	55.3	157	11	US-11-096-568A-18720	Sequence 18720, A

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534	26	55.3	162	11	US-11-055-822-788	Sequence 788, App	607	26	55.3	261	11	US-11-188-298-5500	Sequence 5500, Ap
535	26	55.3	163	11	US-11-188-298-8523	Sequence 8523, Ap	608	26	55.3	261	11	US-11-188-298-13909	Sequence 13909, A
536	26	55.3	163	11	US-11-188-298-10878	Sequence 10878, A	609	26	55.3	263	11	US-11-096-568A-17277	Sequence 17277, A
537	26	55.3	163	11	US-11-188-298-12303	Sequence 12303, A	610	26	55.3	263	11	US-11-172-740-1533	Sequence 1533, Ap
538	26	55.3	164	11	US-11-050-857-971	Sequence 971, App	611	26	55.3	264	11	US-11-172-740-1534	Sequence 1534, Ap
539	26	55.3	164	11	US-11-051-720-1710	Sequence 1710, Ap	612	26	55.3	267	9	US-10-627-952-20	Sequence 20, App1
540	26	55.3	164	11	US-11-043-806-488	Sequence 488, App	613	26	55.3	267	9	US-10-329-558-25	Sequence 25, App1
541	26	55.3	165	11	US-11-050-857-970	Sequence 970, App	614	26	55.3	267	11	US-11-087-099-10132	Sequence 10132, A
542	26	55.3	165	11	US-11-051-720-1709	Sequence 1709, Ap	615	26	55.3	267	11	US-11-172-740-1536	Sequence 1536, Ap
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544	26	55.3	166	11	US-11-079-463-6469	Sequence 6469, Ap	617	26	55.3	267	11	US-11-188-298-12720	Sequence 12720, A
545	26	55.3	173	9	US-10-793-626-284	Sequence 284, App	618	26	55.3	269	11	US-11-087-099-7592	Sequence 7592, Ap
546	26	55.3	174	11	US-11-188-298-2174	Sequence 2174, App	619	26	55.3	270	11	US-11-172-740-1538	Sequence 1538, Ap
547	26	55.3	175	11	US-11-188-298-4065	Sequence 4065, Ap	620	26	55.3	271	11	US-11-079-463-5305	Sequence 5305, Ap
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553	26	55.3	196	11	US-11-188-298-10614	Sequence 10614, A	626	26	55.3	284	11	US-11-096-568A-11740	Sequence 11740, A
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555	26	55.3	199	11	US-11-096-568A-14298	Sequence 14298, A	628	26	55.3	293	11	US-11-096-568A-2429	Sequence 2429, Ap
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557	26	55.3	206	11	US-11-096-568A-11495	Sequence 11495, A	630	26	55.3	297	11	US-11-096-568A-2428	Sequence 2428, Ap
558	26	55.3	209	11	US-11-134-241-37	Sequence 37, App1	631	26	55.3	297	11	US-11-096-568A-31116	Sequence 3116, Ap
559	26	55.3	213	11	US-11-072-512-3861	Sequence 3861, Ap	632	26	55.3	297	11	US-11-079-463-6186	Sequence 9, App11
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561	26	55.3	214	11	US-11-172-740-68	Sequence 68, App1	634	26	55.3	300	9	US-11-152-569-17	Sequence 17, App1
562	26	55.3	215	11	US-11-072-512-2196	Sequence 2196, Ap	635	26	55.3	302	11	US-11-079-463-8378	Sequence 8378, Ap
563	26	55.3	218	11	US-11-072-512-3678	Sequence 3678, Ap	636	26	55.3	302	11	US-11-079-463-6125	Sequence 6125, Ap
564	26	55.3	221	11	US-11-096-568A-5522	Sequence 5522, Ap	637	26	55.3	303	11	US-11-079-463-6125	Sequence 13, App1
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566	26	55.3	222	11	US-11-050-857-143	Sequence 143, App	639	26	55.3	305	11	US-11-087-177-11	Sequence 11, App1
567	26	55.3	222	11	US-11-051-720-1410	Sequence 1410, Ap	640	26	55.3	305	11	US-11-087-177-13	Sequence 13, App1
568	26	55.3	222	11	US-11-043-806-332	Sequence 332, App	641	26	55.3	307	9	US-10-467-657-1592	Sequence 1592, Ap
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574	26	55.3	236	11	US-11-096-568A-24783	Sequence 24783, A	647	26	55.3	317	11	US-11-188-298-19577	Sequence 2398, Ap
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578	26	55.3	245	11	US-11-087-099-1154	Sequence 1154, Ap	651	26	55.3	320	11	US-11-087-099-11834	Sequence 305, App
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582	26	55.3	245	11	US-11-087-099-4401	Sequence 4401, Ap	655	26	55.3	334	11	US-11-098-686-10407	Sequence 10407, A
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584	26	55.3	245	11	US-11-087-099-5134	Sequence 5134, Ap	657	26	55.3	336	9	US-10-453-312-440	Sequence 640, App
585	26	55.3	245	11	US-11-087-099-5141	Sequence 5141, Ap	658	26	55.3	338	11	US-10-467-657-3852	Sequence 3852, Ap
586	26	55.3	245	11	US-11-087-099-6186	Sequence 6186, Ap	659	26	55.3	338	11	US-11-188-298-5103	Sequence 5103, Ap
587	26	55.3	245	11	US-11-087-099-6348	Sequence 6348, Ap	660	26	55.3	338	11	US-11-188-298-6312	Sequence 6312, Ap
588	26	55.3	245	11	US-11-087-099-6442	Sequence 6442, Ap	661	26	55.3	338	11	US-11-188-298-6312	Sequence 7360, Ap
589	26	55.3	245	11	US-11-087-099-6551	Sequence 6551, Ap	662	26	55.3	340	11	US-11-098-686-10318	Sequence 10918, A
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591	26	55.3	245	11	US-11-087-099-7927	Sequence 7927, Ap	664	26	55.3	342	11	US-11-096-568A-33536	Sequence 32536, A
592	26	55.3	245	11	US-11-087-099-8322	Sequence 8322, Ap	665	26	55.3	344	11	US-11-096-568A-6850	Sequence 6850, Ap
593	26	55.3	245	11	US-11-087-099-9726	Sequence 9726, Ap	666	26	55.3	345	11	US-11-055-822-1028	Sequence 1028, Ap
594	26	55.3	245	11	US-11-087-099-9780	Sequence 9780, Ap	667	26	55.3	345	11	US-11-174-816-15	Sequence 15, App1
595	26	55.3	245	11	US-11-087-099-9935	Sequence 9935, Ap	668	26	55.3	345	11	US-11-174-819-70	Sequence 70, App
596	26	55.3	245	11	US-11-087-099-10438	Sequence 10438, A	669	26	55.3	346	11	US-11-087-099-720	Sequence 720, App
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603	26	55.3	255	11	US-11-096-568A-43394	Sequence 43394, Ap	676	26	55.3	349	11	US-11-096-568A-6849	Sequence 6849, Ap
604	26	55.3	256	11	US-11-096-568A-23243	Sequence 23243, Ap	677	26	55.3	349	11	US-11-255-190-17	Sequence 17, App1
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681	26	55.3	350	11	US-11-087-099-955	Sequence 955, App	754	26	55.3	374	11	US-11-087-099-7629	Sequence 7629, Ap
682	26	55.3	350	11	US-11-103-195-8	Sequence 8, Appl1	755	26	55.3	374	11	US-11-087-099-7931	Sequence 7931, Ap
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684	26	55.3	354	11	US-11-188-298-19796	Sequence 19796, A	757	26	55.3	374	11	US-11-087-099-8874	Sequence 8874, Ap
685	26	55.3	355	9	US-10-467-657-5056	Sequence 5056, Ap	758	26	55.3	374	11	US-11-087-099-8987	Sequence 8987, Ap
686	26	55.3	355	11	US-11-096-568A-30791	Sequence 30791, A	759	26	55.3	374	11	US-11-087-099-9371	Sequence 9371, Ap
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688	26	55.3	358	11	US-11-087-099-8108	Sequence 8108, Ap	761	26	55.3	374	11	US-11-087-099-10153	Sequence 10153, A
689	26	55.3	358	11	US-11-087-099-11545	Sequence 11545, A	762	26	55.3	374	11	US-11-087-099-10890	Sequence 10890, A
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693	26	55.3	359	11	US-11-087-177-23	Sequence 23, Appl1	766	26	55.3	374	11	US-11-087-099-12416	Sequence 12416, A
694	26	55.3	359	11	US-11-087-177-25	Sequence 25, Appl1	767	26	55.3	375	11	US-11-127-877-67	Sequence 67, Appl1
695	26	55.3	359	11	US-11-087-177-29	Sequence 29, Appl1	768	26	55.3	377	11	US-11-096-568A-17276	Sequence 17276, A
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697	26	55.3	360	11	US-11-072-512-3788	Sequence 3788, Ap	770	26	55.3	378	11	US-11-096-568A-24781	Sequence 24781, A
698	26	55.3	360	11	US-11-087-099-6924	Sequence 6924, Ap	771	26	55.3	381	11	US-11-096-666-11174	Sequence 11174, A
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702	26	55.3	361	11	US-11-087-099-8751	Sequence 8751, Ap	775	26	55.3	389	9	US-10-485-310-3	Sequence 3, Appl1
703	26	55.3	361	11	US-11-087-099-12319	Sequence 12319, A	776	26	55.3	394	11	US-11-188-298-10251	Sequence 10251, A
704	26	55.3	362	11	US-11-087-099-3548	Sequence 3548, Ap	777	26	55.3	399	11	US-11-096-568A-14720	Sequence 14720, A
705	26	55.3	362	11	US-11-096-568A-11739	Sequence 11739, A	778	26	55.3	399	11	US-11-096-568A-21839	Sequence 21839, A
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707	26	55.3	363	11	US-11-087-099-7293	Sequence 7293, A	780	26	55.3	399	11	US-11-096-568A-26228	Sequence 26228, A
708	26	55.3	363	11	US-11-087-099-9077	Sequence 9077, Ap	781	26	55.3	401	11	US-11-096-568A-29943	Sequence 29943, A
709	26	55.3	363	11	US-11-087-099-11097	Sequence 11097, A	782	26	55.3	401	11	US-11-096-568A-32472	Sequence 32472, A
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711	26	55.3	363	11	US-11-087-099-11102	Sequence 11102, A	784	26	55.3	404	11	US-11-069-662-115	Sequence 115, App
712	26	55.3	364	11	US-11-087-177-33	Sequence 33, Appl1	785	26	55.3	405	9	US-10-703-799B-262	Sequence 262, App
713	26	55.3	364	11	US-11-087-177-33	Sequence 33, Appl1	786	26	55.3	406	11	US-11-072-532-3291	Sequence 3291, Ap
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715	26	55.3	364	11	US-11-087-099-3540	Sequence 3540, Ap	788	26	55.3	408	11	US-11-135-855-39	Sequence 39, Appl1
716	26	55.3	364	11	US-11-087-099-5588	Sequence 5588, Ap	789	26	55.3	409	11	US-11-188-298-20269	Sequence 20269, A
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718	26	55.3	365	11	US-11-087-099-11667	Sequence 1867, Ap	791	26	55.3	415	11	US-11-096-568A-13118	Sequence 13118, A
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723	26	55.3	367	11	US-11-109-157A-20	Sequence 20, Appl1	796	26	55.3	423	11	US-11-096-568A-13117	Sequence 13117, A
724	26	55.3	367	11	US-11-096-568A-25130	Sequence 25130, A	797	26	55.3	424	11	US-11-045-004-554	Sequence 554, App
725	26	55.3	368	11	US-11-082-389-320	Sequence 320, App	798	26	55.3	425	11	US-11-045-004-554	Sequence 554, App
726	26	55.3	369	11	US-11-087-099-4654	Sequence 4654, Ap	799	26	55.3	425	11	US-11-061-869-10	Sequence 10, Appl1
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## ALIGNMENTS

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RESULT 1
US-10-530-061-1715
; Sequence 1715, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1715
; LENGTH: 15
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; ORGANISM: Human papillomavirus
US-10-530-061-1715

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US-10-511-814-8
; Sequence 8, Application US/10511814
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
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US-10-511-814-8

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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
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RESULT 4
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
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APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530.253  
PRIOR FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
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US-10-530-253-14

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Best Local Similarity 88.9%; Pred. No. 0.1;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 86 TLGIVCPIC 94

RESULT 5  
US-11-179-478-4  
Sequence 4, Application US/11179478  
Publication No. US20050249745A1

GENERAL INFORMATION:

APPLICANT: BURGER, Alexander  
APPLICANT: HALLER, Michael  
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE  
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/11/179,478  
FILING DATE: 13-JULY-2005

CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/10/554,129  
FILING DATE: 04-Sep-2003

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:  
NAME: Sandercock, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 37067/102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 98 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLSCULE TYPE: protein

US-11-179-478-4

Query Match 91.5%; Score 43; DB 11; Length 98;  
Best Local Similarity 88.9%; Pred. No. 0.1;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 86 TLGIVCPIC 94

RESULT 6  
US-10-530-253-1

Sequence 1, Application US/10530253  
Publication No. US20060014926A1

GENERAL INFORMATION:

APPLICANT: Cassetti, Maria C.

APPLICANT: Smith, Larry

APPLICANT: Jeffrey K. Pullen

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2

CURRENT APPLICATION NUMBER: US/10/530.253

PRIOR FILING DATE: 2005-04-04

PRIOR APPLICATION NUMBER: PCT/US2003/031726

PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03

NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1

SEQ ID NO 1

LENGTH: 248

TYPE: PRT

ORGANISM: Human papillomavirus type 16  
US-10-530-253-1

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 236 TLGIVCPIC 244

RESULT 7  
US-10-530-253-3

Sequence 3, Application US/10530253  
Publication No. US20060014926A1

GENERAL INFORMATION:

APPLICANT: Cassetti, Maria C.

APPLICANT: Smith, Larry

APPLICANT: Jeffrey K. Pullen

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 00630/100M137-US2

CURRENT APPLICATION NUMBER: US/10/530.253

PRIOR FILING DATE: 2005-04-04

PRIOR APPLICATION NUMBER: PCT/US2003/031726

PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03

NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1

SEQ ID NO 3

LENGTH: 248

TYPE: PRT

ORGANISM: Human papillomavirus type 16  
US-10-530-253-3

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9

DB 236 TLGIVPIC 244

```
RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5
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Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 236 TLGIVPIC 244

```
RESULT 9
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7
```

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVPIC 94

RESULT 10

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US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9
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Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVPIC 94

```
RESULT 11
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11
```

Query Match 91.5%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.27;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
DB 86 TLGIVPIC 94

```
RESULT 12
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
```

```

; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; TITLE OF INVENTION: RECOMBINANT REPLICON
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match      91.5%; Score 43; DB 11; Length 256;
Best Local Similarity 88.9%; Pred. No. 0.28;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
Db      86 TLGIVCPI 94

RESULT 13
US-11-087-099-6982
; Sequence 6982, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6982
; LENGTH: 516
; TYPE: PRT
; ORGANISM: Shewanella oneidensis MR-1
US-11-087-099-6982

Query Match      76.6%; Score 36; DB 11; Length 516;
Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
Db      254 TLGIVAGLC 262

RESULT 14
US-11-072-175-250
; Sequence 250, Application US/11072175
; Publication No. US20060029944A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; FILE REFERENCE: D0273A CIP
; CURRENT APPLICATION NUMBER: US/11/072,175
; CURRENT FILING DATE: 2005-03-05
; PRIOR APPLICATION NUMBER: US 60/406,385
; PRIOR FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: US 10/648,593
; PRIOR FILING DATE: 2003-08-26
; NUMBER OF SEQ ID NOS: 571
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 250
; LENGTH: 487
; TYPE: PRT
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```

; ORGANISM: Homo sapiens
US-11-072-175-250

Query Match      74.5%; Score 35; DB 11; Length 487;
Best Local Similarity 55.6%; Pred. No. 24;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
Db      202 TFGIILPLC 210

RESULT 15
US-10-530-061-1714
; Sequence 1714, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1714
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1714

Query Match      72.3%; Score 34; DB 9; Length 15;
Best Local Similarity 87.5%; Pred. No. 1;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPI 8
Db      8 TLGIVCPI 15

RESULT 16
US-10-511-937-2997
; Sequence 2997, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
; APPLICANT: EXPRESSION DIAGNOSTICS, INC.
; APPLICANT: Wohlgenuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Prentice, James
; APPLICANT: Morris, Macdonald
; APPLICANT: Rosenberg, Steven
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
; AND MONITORING TRANSPLANT REJECTION
; FILE REFERENCE: 506612000104
; CURRENT APPLICATION NUMBER: US/10/511,937
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US2003/012946
; PRIOR FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: US 10/131,831
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 10/325,899
; PRIOR FILING DATE: 2002-12-20
; NUMBER OF SEQ ID NOS: 3117
; SOFTWARE: Patentin version 3.2
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SEQ ID NO 2997  
LENGTH: 297  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-511-937-2997

Query Match 70.2%; Score 33; DB 8; Length 297;  
Best Local Similarity 85.7%; Pred. No. 36;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GIVAPIC 9  
Db 75 GIVAPIC 81

RESULT 17  
US-11-138-949-7  
Sequence 7, Application US/11138949  
Publication No. US20050271662A1  
GENERAL INFORMATION:  
APPLICANT: Beall, Melissa J  
TITLE OF INVENTION: CANINE CD20 COMPOSITIONS  
FILE REFERENCE: 04-457A  
CURRENT APPLICATION NUMBER: US/11/138,949  
CURRENT FILING DATE: 2005-05-26  
PRIOR APPLICATION NUMBER: 60/575172  
PRIOR FILING DATE: 2004-05-28  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 7  
LENGTH: 297  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-138-949-7

Query Match 70.2%; Score 33; DB 11; Length 297;  
Best Local Similarity 85.7%; Pred. No. 36;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GIVAPIC 9  
Db 75 GIVAPIC 81

RESULT 18  
US-11-190-364-25  
Sequence 25, Application US/11190364  
Publication No. US20060024300A1  
GENERAL INFORMATION:  
APPLICANT: Adams ET AL.  
TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof  
FILE REFERENCE: P1990R3C1P1  
CURRENT APPLICATION NUMBER: US/11/190,364  
CURRENT FILING DATE: 2005-07-26  
PRIOR APPLICATION NUMBER: US 60/434,115  
PRIOR FILING DATE: 2002-12-16  
PRIOR APPLICATION NUMBER: US 60/526,163  
PRIOR FILING DATE: 2003-12-01  
PRIOR APPLICATION NUMBER: PCT/US03/40426  
PRIOR FILING DATE: 2003-12-16  
PRIOR APPLICATION NUMBER: US 11/147,780  
PRIOR FILING DATE: 2005-06-07  
NUMBER OF SEQ ID NOS: 38  
SEQ ID NO 25  
LENGTH: 297  
TYPE: PRT  
ORGANISM: Macaca fascicularis  
US-11-190-364-25

Query Match 70.2%; Score 33; DB 11; Length 297;  
Best Local Similarity 85.7%; Pred. No. 36;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GIVAPIC 9  
Db 75 GIVAPIC 81

RESULT 19  
US-11-190-364-26  
Sequence 26, Application US/11190364  
Publication No. US20060024300A1  
GENERAL INFORMATION:  
APPLICANT: Adams ET AL.  
TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof  
FILE REFERENCE: P1990R3C1P1  
CURRENT APPLICATION NUMBER: US/11/190,364  
CURRENT FILING DATE: 2005-07-26  
PRIOR APPLICATION NUMBER: US 60/434,115  
PRIOR FILING DATE: 2002-12-16  
PRIOR APPLICATION NUMBER: US 60/526,163  
PRIOR FILING DATE: 2003-12-01  
PRIOR APPLICATION NUMBER: PCT/US03/40426  
PRIOR FILING DATE: 2003-12-16  
PRIOR APPLICATION NUMBER: US 11/147,780  
PRIOR FILING DATE: 2005-06-07  
NUMBER OF SEQ ID NOS: 38  
SEQ ID NO 26  
LENGTH: 297  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-190-364-26

Query Match 70.2%; Score 33; DB 11; Length 297;  
Best Local Similarity 85.7%; Pred. No. 36;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GIVAPIC 9  
Db 75 GIVAPIC 81

RESULT 20  
US-11-147-780-25  
Sequence 25, Application US/11147780  
Publication No. US20060034835A1  
GENERAL INFORMATION:  
APPLICANT: Adams ET AL.  
TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof  
FILE REFERENCE: P1990R3C1  
CURRENT APPLICATION NUMBER: US/11/147,780  
CURRENT FILING DATE: 2005-06-07  
PRIOR APPLICATION NUMBER: US 60/434,115  
PRIOR FILING DATE: 2002-12-16  
PRIOR APPLICATION NUMBER: US 60/526,163  
PRIOR FILING DATE: 2003-12-01  
PRIOR APPLICATION NUMBER: PCT/US03/40426  
PRIOR FILING DATE: 2003-12-16  
NUMBER OF SEQ ID NOS: 38  
SEQ ID NO 25  
LENGTH: 297  
TYPE: PRT  
ORGANISM: Macaca fascicularis  
US-11-147-780-25

Query Match 70.2%; Score 33; DB 11; Length 297;  
Best Local Similarity 85.7%; Pred. No. 36;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GIVAPIC 9  
Db 75 GIVAPIC 81

RESULT 21  
US-11-147-780-26

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/ Sequence 26, Application US/11147780
/ Publication No. US20060034835A1
/ GENERAL INFORMATION:
/ APPLICANT: Adams ET AL.
/ TITLE OF INVENTION: Immunoglobulin Variants and Uses Thereof
/ FILE REFERENCE: P1990R3C1
/ CURRENT APPLICATION NUMBER: US/11/147,780
/ CURRENT FILING DATE: 2005-06-07
/ PRIOR APPLICATION NUMBER: US 60/434,115
/ PRIOR FILING DATE: 2002-12-16
/ PRIOR APPLICATION NUMBER: US 60/526,163
/ PRIOR FILING DATE: 2003-12-01
/ PRIOR APPLICATION NUMBER: PCT/US03/40426
/ PRIOR FILING DATE: 2003-12-16
/ NUMBER OF SEQ ID NOS: 38
/ SEQ ID NO 26
/ LENGTH: 297
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-147-780-26

Query Match      70.2%; Score 33; DB 11; Length 297;
Best Local Similarity 85.7%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 GIVAPIC 9
      |||||
Db      75 GIVAPIC 81

RESULT 22
US-10-509-773-6
/ Sequence 6, Application US/10509773
/ Publication No. US20050281743A1
/ GENERAL INFORMATION:
/ APPLICANT: Delaney, Allen
/ TITLE OF INVENTION: Cancer Associated Protein Phosphatases and their
/ FILE REFERENCE: SMAR-044
/ CURRENT APPLICATION NUMBER: US/10/509,773
/ CURRENT FILING DATE: 2004-09-28
/ PRIOR APPLICATION NUMBER: CA03/00393
/ PRIOR FILING DATE: 2003-03-19
/ PRIOR APPLICATION NUMBER: 60/368,859
/ PRIOR FILING DATE: 2002-03-28
/ NUMBER OF SEQ ID NOS: 12
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 6
/ LENGTH: 339
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: UNSURE
/ LOCATION: (0)...(0)
/ OTHER INFORMATION: PTPN7 polypeptide sequence
US-10-509-773-6

Query Match      70.2%; Score 33; DB 9; Length 339;
Best Local Similarity 66.7%; Pred. No. 42;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 9
      |||||
Db      33 SIGAVEPIC 41

RESULT 23
US-11-045-004-131
/ Sequence 131, Application US/11045004
/ Publication No. US20060078901A1
/ GENERAL INFORMATION:
/ APPLICANT: BUCHRIESEN, CARMEN
/ APPLICANT: FRANGEUL, LIONEL
```

```
/ APPLICANT: COUVE, ELISABETH
/ APPLICANT: RUSNIOK, CHRISTOPHE
/ APPLICANT: RSHI, HAFIDA
/ APPLICANT: DEROUX, PIERRE
/ APPLICANT: DUSSETT, OLIVIER
/ APPLICANT: CHETOUANI, FARID
/ APPLICANT: MEDJARI, HAFED
/ APPLICANT: GLASER, PHILIPPE
/ APPLICANT: KUNST, FRANK
/ APPLICANT: COSSAET, PASCALE
/ APPLICANT: DANIELS, JUSTIN
/ APPLICANT: GOEBEL, WERNER
/ APPLICANT: KREFT, JURGEN
/ APPLICANT: KUNH, MICHAEL
/ APPLICANT: NG, EVA
/ APPLICANT: VAZQUEZ-BOLAND, ANTONIO
/ APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
/ APPLICANT: GARRIDO-GARCIA, PATRICIA
/ APPLICANT: TERRERZ-MARTINEZ, ALBERTO
/ APPLICANT: AMEND, ALEXANDRA
/ APPLICANT: CHAKRABORTY, TRINAD
/ APPLICANT: DOMANN, EUGEN
/ APPLICANT: HAIN, THORSTEN
/ APPLICANT: BERCHE, PATRICK
/ APPLICANT: CHARBIT, ALAIN
/ APPLICANT: DURANT, LIONEL
/ APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
/ APPLICANT: BAQUERO, FERNANDO
/ APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
/ APPLICANT: GOMEZ-LOPEZ, NURIA
/ APPLICANT: MADUENIO, ENCARRA
/ APPLICANT: PABLOS, BETRIZ DE
/ APPLICANT: WEHLAND, JURGEN
/ APPLICANT: KARST, UWE
/ APPLICANT: ENTIAN, KARL-DIETER
/ APPLICANT: HAUF, JORG
/ APPLICANT: ROSE, MATTHIAS
/ APPLICANT: VOSS, HANUT
/ TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
/ FILE REFERENCE: 05394.0018-02
/ CURRENT APPLICATION NUMBER: US/11/045,004
/ CURRENT FILING DATE: 2005-01-28
/ PRIOR APPLICATION NUMBER: 10/637,657
/ PRIOR FILING DATE: 2003-08-11
/ PRIOR APPLICATION NUMBER: 10/257,023
/ PRIOR FILING DATE: 2002-10-08
/ PRIOR APPLICATION NUMBER: PCT/FR01/01118
/ PRIOR FILING DATE: 2001-04-11
/ PRIOR APPLICATION NUMBER: FR 00/04,629
/ PRIOR FILING DATE: 2000-04-11
/ NUMBER OF SEQ ID NOS: 2854
/ SOFTWARE: Patentin version 3.3
/ SEQ ID NO 131
/ LENGTH: 454
/ TYPE: PRT
/ ORGANISM: Listeria monocytogenes
US-11-045-004-131

Query Match      70.2%; Score 33; DB 11; Length 454;
Best Local Similarity 75.0%; Pred. No. 56;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 TLGIVAPIC 8
      |||||
Db      389 TLGIVAPIC 396

RESULT 24
US-11-188-298-5636
/ Sequence 5636, Application US/11188298
/ Publication No. US20060075522A1
/ GENERAL INFORMATION:
/ APPLICANT: Abad, Mark S. et al.
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```
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5636
; LENGTH: 471
; TYPE: PRT
; ORGANISM: GIBBERELLA ZEAE PH-1
US-11-188-298-5636

Query Match          70.2%; Score 33; DB 11; Length 471;
Best Local Similarity 75.0%; Pred. No. 59;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9
Db 147 LGIVAPIC 154

RESULT 25
US-11-188-298-13779
; Sequence 13779, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13779
; LENGTH: 599
; TYPE: PRT
; ORGANISM: Caulobacter crescentus CB15
US-11-188-298-13779

Query Match          70.2%; Score 33; DB 11; Length 599;
Best Local Similarity 87.5%; Pred. No. 75;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPI 8
Db 19 TLGIVAPI 26

RESULT 26
US-10-530-061-662
; Sequence 662, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 662
; LENGTH: 10
; TYPE: PRT

; ORGANISM: Human papillomavirus
US-10-530-061-662

Query Match          68.1%; Score 32; DB 9; Length 10;
Best Local Similarity 71.4%; Pred. No. 17;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 GIVAPIC 9
Db 1 GLVCPIC 7

RESULT 27
US-10-118-590-12
; Sequence 12, Application US/10118590
; Publication No. US2005027761A1
; GENERAL INFORMATION:
; APPLICANT: KENNETH RHODES, MARIA BETTY, HUAI-PING LING, AND FRANK AN
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: NMT-070
; CURRENT APPLICATION NUMBER: US/10/118,590
; CURRENT FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: US/09/298,731
; PRIOR FILING DATE: 1999-04-23
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Rattus sp.
US-10-118-590-12

Query Match          68.1%; Score 32; DB 9; Length 203;
Best Local Similarity 66.7%; Pred. No. 39;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9
Db 12 TLGIVAPIC 20

RESULT 28
US-11-096-568A-23843
; Sequence 23843, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23843
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(224)
; OTHER INFORMATION: Ceres Seq. ID no. 12415696
US-11-096-568A-23843

Query Match          68.1%; Score 32; DB 11; Length 224;
Best Local Similarity 50.0%; Pred. No. 43;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9
Db 162 ISVAVPVC 169

RESULT 29
```



```
US-11-096-568A-23842
; Sequence 23842, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23842
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(225)
; OTHER INFORMATION: Ceres Seq. ID no. 12415695
US-11-096-568A-23842

Query Match      68.1%; Score 32; DB 11; Length 225;
Best Local Similarity 50.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      2 LGIAPIC 9
Db      163 ISVAPVC 170

RESULT 30
US-10-118-590-4
; Sequence 4, Application US/10118590
; Publication No. US2005027761A1
; GENERAL INFORMATION:
; APPLICANT: KENNETH RHODES, MARIA BETTY, HUAI-PING LING, AND FRANK AN
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
; FILE REFERENCE: NMI-070
; CURRENT APPLICATION NUMBER: US/10/118,590
; CURRENT FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: US/09/298,731
; PRIOR FILING DATE: 1999-04-23
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Rattus sp.
US-10-118-590-4

Query Match      68.1%; Score 32; DB 9; Length 245;
Best Local Similarity 66.7%; Pred. No. 48;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      25 TLGIWVLC 33

RESULT 31
US-11-096-568A-23841
; Sequence 23841, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23841
; LENGTH: 248
```

```
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(248)
; OTHER INFORMATION: Ceres Seq. ID no. 12415694
US-11-096-568A-23841

Query Match      68.1%; Score 32; DB 11; Length 248;
Best Local Similarity 50.0%; Pred. No. 48;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      2 LGIAPIC 9
Db      186 ISVAPVC 193

RESULT 32
US-11-098-686-11027
; Sequence 11027, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11027
; LENGTH: 277
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11027

Query Match      68.1%; Score 32; DB 11; Length 277;
Best Local Similarity 44.4%; Pred. No. 54;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1 TLGIAPIC 9
Db      105 TLAVIDVC 113

RESULT 33
US-11-138-949-8
; Sequence 8, Application US/11138949
; Publication No. US20050271662A1
; GENERAL INFORMATION:
; APPLICANT: Beall, Melissa J
; TITLE OF INVENTION: CANINE CD20 COMPOSITIONS
; FILE REFERENCE: 04-457A
; CURRENT APPLICATION NUMBER: US/11/138,949
; CURRENT FILING DATE: 2005-05-26
; PRIOR APPLICATION NUMBER: 60/575172
; PRIOR FILING DATE: 2004-05-28
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-138-949-8

Query Match      68.1%; Score 32; DB 11; Length 291;
Best Local Similarity 71.4%; Pred. No. 57;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

QY 3 LGIVAPIC 9  
| : |||  
Db 68 LGFVLPC 74

## RESULT 34

US-11-040-218-75  
; Sequence 75, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentin Ver. 3.2  
; SEQ ID NO 75  
; LENGTH: 333  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MOD\_RES  
; LOCATION: (305)  
; OTHER INFORMATION: Variable amino acid  
US-11-040-218-75

Query Match 68.1%; Score 32; DB 11; Length 333;  
Best Local Similarity 62.5%; Pred. No. 65;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
| : |||  
Db 219 LGFVLPC 226

## RESULT 35

US-11-040-218-77  
; Sequence 77, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentin Ver. 3.2  
; SEQ ID NO 77  
; LENGTH: 347  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: MOD\_RES  
; LOCATION: (319)

; OTHER INFORMATION: Variable amino acid  
US-11-040-218-77

Query Match 68.1%; Score 32; DB 11; Length 347;  
Best Local Similarity 62.5%; Pred. No. 68;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
| : |||  
Db 233 LGFVLPC 240

## RESULT 36

US-11-040-218-79  
; Sequence 79, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentin Ver. 3.2  
; SEQ ID NO 79  
; LENGTH: 364  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-040-218-79

Query Match 68.1%; Score 32; DB 11; Length 364;  
Best Local Similarity 62.5%; Pred. No. 72;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
| : |||  
Db 219 LGFVLPC 226

## RESULT 37

US-11-040-218-81  
; Sequence 81, Application US/11040218  
; Publication No. US20060029983A1  
; GENERAL INFORMATION:  
; APPLICANT: OAKLEY, ROBERT H.  
; APPLICANT: HUDSON, CHRISTINE C.  
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE  
; FILE REFERENCE: NRK.108  
; CURRENT APPLICATION NUMBER: US/11/040,218  
; PRIOR FILING DATE: 2005-01-21  
; PRIOR APPLICATION NUMBER: US/10/788,197  
; PRIOR FILING DATE: 2004-02-26  
; PRIOR APPLICATION NUMBER: PCT/US03/14581  
; PRIOR FILING DATE: 2003-05-12  
; PRIOR APPLICATION NUMBER: 60/379,986  
; PRIOR FILING DATE: 2002-05-13  
; PRIOR APPLICATION NUMBER: 60/401,698  
; PRIOR FILING DATE: 2002-08-07  
; NUMBER OF SEQ ID NOS: 94  
; SOFTWARE: Patentin Ver. 3.2  
; SEQ ID NO 81  
; LENGTH: 378  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-11-040-218-81

Query Match 68.1%; Score 32; DB 11; Length 378;  
Best Local Similarity 62.5%; Pred. No. 75;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 TLGIAPIC 9  
DB 233 LGFVLVPC 240

RESULT 38

US-10-467-657-1048  
; Sequence 1048, Application US/10467657  
; Publication No. US20050260581A1  
; GENERAL INFORMATION:  
; APPLICANT: CHIRON SpA  
; APPLICANT: FONTANA Maria Rita  
; APPLICANT: PIZZA Mariagrazia  
; APPLICANT: MASIGNANI Vega  
; APPLICANT: MONACI Elisabetta  
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/467,657  
; CURRENT FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: GB-0103424.8  
; PRIOR FILING DATE: 2001-02-12  
; NUMBER OF SEQ ID NOS: 9218  
; SOFTWARE: SeqWin99, version 1.04  
; SEQ ID NO 1048  
; LENGTH: 406  
; TYPE: PRT  
; ORGANISM: Neisseria gonorrhoeae  
US-10-467-657-1048

Query Match 68.1%; Score 32; DB 9; Length 406;  
Best Local Similarity 66.7%; Pred. No. 80;  
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
DB 326 TANIVGPC 334

RESULT 39

US-11-188-298-10159  
; Sequence 10159, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 10159  
; LENGTH: 428  
; TYPE: PRT  
; ORGANISM: Microtetrastora sp. ATCC 39727  
US-11-188-298-10159

Query Match 68.1%; Score 32; DB 11; Length 428;  
Best Local Similarity 62.5%; Pred. No. 85;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLGIAPIC 8  
DB 287 TLGVLAPL 294

RESULT 40

US-10-467-657-4680

; Sequence 4680, Application US/10467657  
; Publication No. US20050260581A1  
; GENERAL INFORMATION:  
; APPLICANT: CHIRON SpA  
; APPLICANT: FONTANA Maria Rita  
; APPLICANT: MASIGNANI Vega  
; APPLICANT: MONACI Elisabetta  
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/467,657  
; CURRENT FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: GB-0103424.8  
; PRIOR FILING DATE: 2001-02-12  
; NUMBER OF SEQ ID NOS: 9218  
; SOFTWARE: SeqWin99, version 1.04  
; SEQ ID NO 4680  
; LENGTH: 515  
; TYPE: PRT  
; ORGANISM: Neisseria gonorrhoeae  
US-10-467-657-4680

Query Match 68.1%; Score 32; DB 9; Length 515;  
Best Local Similarity 66.7%; Pred. No. 1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
DB 243 TLGITLVC 251

RESULT 41

US-10-942-072-4  
; Sequence 4, Application US/10942072  
; Publication No. US20050250721A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammon, H. K.  
; APPLICANT: Insel, P. A.  
; APPLICANT: Ping, P.  
; APPLICANT: Post, S. R.  
; APPLICANT: Geo, M.  
; TITLE OF INVENTION: GENE THERAPY FOR CONGESTIVE HEART  
; TITLE OF INVENTION: FAILURE  
; FILE REFERENCE: 220002056723  
; CURRENT APPLICATION NUMBER: US/10/942,072  
; CURRENT FILING DATE: 2004-09-14  
; PRIOR APPLICATION NUMBER: US/09/750,240  
; PRIOR FILING DATE: 2001-10-12  
; PRIOR APPLICATION NUMBER: US 09/472,667  
; PRIOR FILING DATE: 1999-12-27  
; PRIOR APPLICATION NUMBER: US 09/008,097  
; PRIOR FILING DATE: 1998-01-16  
; PRIOR APPLICATION NUMBER: US 08/924,757  
; PRIOR FILING DATE: 1997-09-05  
; PRIOR APPLICATION NUMBER: US 60/048,933  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: US 08/708,661  
; PRIOR FILING DATE: 1996-09-05  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 604  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-942-072-4

Query Match 68.1%; Score 32; DB 9; Length 604;  
Best Local Similarity 55.6%; Pred. No. 1.2e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
:|:|:|:|:

Db 583 SLGLDAPLC 591

## RESULT 42

US-11-188-298-5921  
Sequence 5921, Application US/11188298  
Publication No. US2006075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 5921  
LENGTH: 676  
TYPE: PRT  
ORGANISM: Populus nigra  
US-11-188-298-5921

Query Match 68.1%; Score 32; DB 11; Length 676;  
Best Local Similarity 55.6%; Pred. No. 1.4e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 517 TWGYIAPEC 525

## RESULT 43

US-11-188-298-19329  
Sequence 19329, Application US/11188298  
Publication No. US2006075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 19329  
LENGTH: 1160  
TYPE: PRT  
ORGANISM: Oryza sativa  
US-11-188-298-19329

Query Match 68.1%; Score 32; DB 11; Length 1160;  
Best Local Similarity 50.0%; Pred. No. 2.4e+02;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 LGIVAPIC 9  
Db 381 LGCISFVC 388

## RESULT 44

US-10-942-072-6  
Sequence 6, Application US/10942072  
Publication No. US20050250721A1  
GENERAL INFORMATION:  
APPLICANT: Hammon, H. K.  
APPLICANT: Inseel, P. A.  
APPLICANT: Ping, P.  
APPLICANT: Post, S. R.  
APPLICANT: Gao, M.  
TITLE OF INVENTION: GENE THERAPY FOR CONGESTIVE HEART  
FILE REFERENCE: 220002056723  
CURRENT APPLICATION NUMBER: US/10/942,072

CURRENT FILING DATE: 2004-09-14  
PRIOR APPLICATION NUMBER: US/09/750,240  
PRIOR FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: US 09/472,667  
PRIOR FILING DATE: 1999-12-27  
PRIOR APPLICATION NUMBER: US 09/008,097  
PRIOR FILING DATE: 1998-01-16  
PRIOR APPLICATION NUMBER: US 08/924,757  
PRIOR FILING DATE: 1997-09-05  
PRIOR APPLICATION NUMBER: US 60/048,933  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: US 08/708,661  
PRIOR FILING DATE: 1996-09-05  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 6  
LENGTH: 1167  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-942-072-6

Query Match 68.1%; Score 32; DB 9; Length 1167;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 794 SLGLDAPLC 802

## RESULT 45

US-10-942-072-13  
Sequence 13, Application US/10942072  
Publication No. US20050250721A1  
GENERAL INFORMATION:  
APPLICANT: Hammon, H. K.  
APPLICANT: Inseel, P. A.  
APPLICANT: Ping, P.  
APPLICANT: Post, S. R.  
APPLICANT: Gao, M.  
TITLE OF INVENTION: GENE THERAPY FOR CONGESTIVE HEART  
FILE REFERENCE: 220002056723  
CURRENT APPLICATION NUMBER: US/10/942,072  
CURRENT FILING DATE: 2004-09-14  
PRIOR APPLICATION NUMBER: US/09/750,240  
PRIOR FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: US 09/472,667  
PRIOR FILING DATE: 1999-12-27  
PRIOR APPLICATION NUMBER: US 09/008,097  
PRIOR FILING DATE: 1998-01-16  
PRIOR APPLICATION NUMBER: US 08/924,757  
PRIOR FILING DATE: 1997-09-05  
PRIOR APPLICATION NUMBER: US 60/048,933  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: US 08/708,661  
PRIOR FILING DATE: 1996-09-05  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13  
LENGTH: 1167  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Modified AC-VI  
US-10-942-072-13

Query Match 68.1%; Score 32; DB 9; Length 1167;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLGIVAPIC 9  
Db 794 SLGLDAPLC 802

Db 794 SLGIDAPLC 802

## RESULT 46

US-10-942-072-11  
; Sequence 11, Application US/10942072  
; Publication No. US20050250721A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammon, H. K.  
; APPLICANT: Insel, P. A.  
; APPLICANT: Ping, P. A.  
; APPLICANT: Post, S. R.  
; APPLICANT: Gao, M.  
; TITLE OF INVENTION: GENE THERAPY FOR CONGESTIVE HEART  
; TITLE OF INVENTION: FAILURE  
; FILE REFERENCE: 220002056723  
; CURRENT APPLICATION NUMBER: US/10/942,072  
; CURRENT FILING DATE: 2004-09-14  
; PRIOR APPLICATION NUMBER: US/09/750,240  
; PRIOR FILING DATE: 2001-10-12  
; PRIOR APPLICATION NUMBER: US 09/472,667  
; PRIOR FILING DATE: 1999-12-27  
; PRIOR APPLICATION NUMBER: US 09/008,097  
; PRIOR FILING DATE: 1998-01-16  
; PRIOR APPLICATION NUMBER: US 08/924,757  
; PRIOR FILING DATE: 1997-09-05  
; PRIOR APPLICATION NUMBER: US 60/048,933  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: US 08/708,661  
; PRIOR FILING DATE: 1996-09-05  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11  
; LENGTH: 1168  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-942-072-11

Query Match 68.1%; Score 32; DB 9; Length 1168;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 795 SLGIDAPLC 803

RESULT 47  
US-10-530-253-30  
; Sequence 30, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 30  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 35  
US-10-530-253-30

Query Match 66.0%; Score 31; DB 9; Length 99;

Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 87 TFGVCPGC 95

RESULT 48  
US-10-530-253-37  
; Sequence 37, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 37  
; LENGTH: 107  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 59  
US-10-530-253-37

Query Match 66.0%; Score 31; DB 9; Length 107;  
Best Local Similarity 55.6%; Pred. No. 32;  
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TLGIVAPIC 9  
Db 95 TLFVCPIC 103

RESULT 49  
US-10-505-928-165  
; Sequence 165, Application US/10505928  
; Publication No. US20060088532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ludwig Institute for Cancer Research et al.  
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES  
; FILE REFERENCE: 28967/39178  
; CURRENT APPLICATION NUMBER: US/10/505,928  
; CURRENT FILING DATE: 2004-08-27  
; PRIOR APPLICATION NUMBER: US 60/363,019  
; PRIOR FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 866  
; SOFTWARE: PatentIn 3.2  
; SEQ ID NO 165  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-505-928-165

Query Match 66.0%; Score 31; DB 8; Length 175;  
Best Local Similarity 83.3%; Pred. No. 54;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 IVAPIC 9  
Db 150 IIVAPIC 155

RESULT 50  
US-11-057-012-56

/ Sequence 56, Application US/11057012  
/ Publication No. US20060026705A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Allen, Stephen M.  
/ APPLICANT: Kinney, Anthony J.  
/ APPLICANT: Liu, Zhan-Bin  
/ APPLICANT: Stecca, Kevin L.  
/ TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes  
/ FILE REFERENCE: B8116 US CIP - 1  
/ CURRENT APPLICATION NUMBER: US/11/057,012  
/ CURRENT FILING DATE: 2005-02-11  
/ PRIOR APPLICATION NUMBER: 09/931,457  
/ PRIOR FILING DATE: 2001-08-16  
/ PRIOR APPLICATION NUMBER: 09/424,976  
/ PRIOR FILING DATE: 1999-12-02  
/ PRIOR APPLICATION NUMBER: 60/065,385  
/ PRIOR FILING DATE: 1997-11-12  
/ PRIOR APPLICATION NUMBER: 60/049,406  
/ PRIOR FILING DATE: 1997-06-12  
/ NUMBER OF SEQ ID NOS: 94  
/ SOFTWARE: Microsoft Office 97  
/ SEQ ID NO 56  
/ LENGTH: 192  
/ TYPE: PRT  
/ ORGANISM: Trillium aestivum  
US-11-057-012-56

Query Match 66.0%; Score 31; DB 11; Length 192;  
Best Local Similarity 55.6%; Pred. No. 59;  
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 TLGIAPIC 9  
Db 109 TFDIVGPMC 117

Search completed: May 5, 2006, 08:07:47  
Job time : 9.5 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
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35.602 Million cell updates/sec

Title: US-08-170-344-21

Perfect score: 49

Sequence: 1 KLPDLCTEL 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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4: /cgn2\_6/ptodata/1/iaa/PTUS\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/iaa/RE\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/iaa/backfilea.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	49	100.0	32	2	US-08-164-768-2
3	49	100.0	158	1	US-08-247-904B-10
4	49	100.0	158	2	US-08-767-942A-19
5	49	100.0	271	1	US-08-117-083-14
6	49	100.0	278	2	US-09-485-885-21
7	49	100.0	383	2	US-09-485-885-22
8	43	87.8	9	1	US-08-787-547-101
9	43	87.8	9	2	US-09-601-729-274
10	43	87.8	20	1	US-08-934-915-159
11	43	87.8	30	1	US-08-363-586-4
12	43	87.8	30	2	US-09-980-523A-4
13	43	87.8	151	2	US-09-701-080C-18
14	43	87.8	158	2	US-09-980-523A-2
15	43	87.8	162	1	US-08-316-239B-4
16	43	87.8	162	1	US-08-316-239B-4
17	43	87.8	172	2	US-08-860-165-14
18	43	87.8	172	2	US-09-359-382-14
19	43	87.8	182	1	US-08-117-083-10
20	43	87.8	243	2	US-09-462-993-1
21	43	87.8	266	2	US-08-860-165-10
22	43	87.8	266	2	US-09-359-382-10
23	43	87.8	266	2	US-09-367-309A-1
24	43	87.8	273	2	US-09-485-885-4
25	43	87.8	292	2	US-09-485-885-10
26	43	87.8	371	2	US-09-485-885-6
27	43	87.8	390	2	US-09-485-885-14

28	81.6	504	2	US-09-198-452A-1036	Sequence 1036, Ap
29	81.6	504	2	US-09-438-185A-966	Sequence 966, App
30	73.5	89	2	US-09-543-681A-7711	Sequence 7711, App
31	73.5	108	2	US-09-328-352-4646	Sequence 4646, Ap
32	73.5	117	2	US-09-540-236-3305	Sequence 3305, Ap
33	73.5	410	2	US-09-489-039A-10689	Sequence 10689, A
34	71.4	148	2	US-09-270-767-38382	Sequence 38382, A
35	71.4	148	2	US-09-270-767-53599	Sequence 53599, A
36	69.4	161	2	US-09-673-395A-248	Sequence 248, App
37	69.4	199	2	US-09-502-540-10941	Sequence 10941, A
38	69.4	307	2	US-09-198-452A-1041	Sequence 1041, Ap
39	69.4	326	2	US-10-104-047-3428	Sequence 3428, Ap
40	69.4	341	2	US-08-481-968A-11	Sequence 11, App1
41	69.4	341	2	US-08-154-712B-11	Sequence 11, App1
42	69.4	341	2	US-09-947-925A-11	Sequence 11, App1
43	69.4	433	2	US-09-686-583B-12	Sequence 12, App1
44	69.4	530	2	US-09-585-174-6	Sequence 6, App1
45	69.4	611	2	US-09-438-185A-970	Sequence 970, App
46	67.3	53	2	US-09-513-999C-7763	Sequence 7763, Ap
47	67.3	73	2	US-09-270-767-62327	Sequence 62327, A
48	67.3	138	1	US-08-609-049A-17	Sequence 17, App1
49	67.3	138	1	US-09-170-996-17	Sequence 17, App1
50	67.3	163	2	US-09-252-991A-31445	Sequence 31445, A
51	67.3	253	2	US-09-251-645-3	Sequence 3, App1
52	67.3	258	2	US-09-248-796A-16533	Sequence 16533, A
53	67.3	264	2	US-09-902-540-12687	Sequence 12687, A
54	67.3	304	2	US-09-270-767-46711	Sequence 46711, A
55	67.3	300	1	US-08-897-340-32	Sequence 32, App1
56	67.3	300	2	US-09-352-329-32	Sequence 32, App1
57	67.3	308	2	US-09-369-247-60	Sequence 60, App1
58	67.3	308	2	US-10-062-548-60	Sequence 60, App1
59	67.3	348	2	US-10-104-047-3188	Sequence 3188, Ap
60	67.3	627	2	US-09-687-538B-6	Sequence 6, App1
61	67.3	627	2	US-10-309-437-6	Sequence 6, App1
62	67.3	628	2	US-09-687-538B-4	Sequence 4, App1
63	67.3	638	2	US-10-309-437-4	Sequence 4, App1
64	65.3	86	2	US-09-248-796A-15475	Sequence 15475, A
65	65.3	109	2	US-09-252-991A-18592	Sequence 18592, A
66	65.3	209	2	US-09-248-796A-17894	Sequence 17894, A
67	65.3	228	2	US-09-270-767-31864	Sequence 31864, A
68	65.3	228	2	US-09-270-767-47081	Sequence 47081, A
69	65.3	270	2	US-09-107-532A-4778	Sequence 4778, Ap
70	65.3	304	2	US-10-432-803-2	Sequence 2, App1
71	65.3	307	2	US-09-949-016-7693	Sequence 7693, Ap
72	65.3	313	1	US-08-990-379-7	Sequence 7, App1
73	65.3	313	2	US-09-248-796A-20918	Sequence 20918, A
74	65.3	314	2	US-09-164-193-22	Sequence 22, App1
75	65.3	314	2	US-09-221-448A-22	Sequence 22, App1
76	65.3	331	2	US-09-919-497-94	Sequence 94, App1
77	65.3	340	2	US-09-540-236-2966	Sequence 2966, Ap
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79	65.3	476	2	US-09-252-991A-22693	Sequence 22693, A
80	65.3	503	2	US-09-147-009-11	Sequence 11, App1
81	65.3	505	2	US-09-270-767-43800	Sequence 43800, A
82	65.3	664	2	US-09-710-279-1258	Sequence 1258, Ap
83	65.3	1385	2	US-08-132-028-2	Sequence 2, App1
84	65.3	1791	2	US-09-827-998B-16	Sequence 16, App1
85	65.3	1791	2	US-09-827-998B-10	Sequence 10, App1
86	65.3	37	1	US-08-319-387-7	Sequence 7, App1
87	65.3	36	2	US-08-216-592A-23	Sequence 23, App1
88	65.3	58	1	US-08-461-965-60	Sequence 60, App1
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98	65.3	58	1	US-08-461-965-60	Sequence 60, App1
99	65.3	58	1	US-08-461-965-60	Sequence 60, App1
100	65.3	58	1	US-08-461-965-60	Sequence 60, App1

101	31	63.3	58	2	US-09-498-556-60	Sequence 60, Appl1	174	31	63.3	971	2	US-08-918-190-2	Sequence 2, Appl1
102	31	63.3	61	1	US-08-465-380-61	Sequence 61, Appl1	175	31	63.3	971	2	US-09-234-232-2	Sequence 2, Appl1
103	31	63.3	61	1	US-08-486-397-61	Sequence 61, Appl1	176	31	63.3	971	4	PCT-US96-09927-2	Sequence 2, Appl1
104	31	63.3	61	1	US-08-486-399-61	Sequence 61, Appl1	177	31	63.3	993	2	US-09-949-016-10335	Sequence 10335, A
105	31	63.3	61	1	US-08-461-965-61	Sequence 61, Appl1	178	31	63.3	1194	2	US-09-092-508-2	Sequence 2, Appl1
106	31	63.3	61	1	US-08-634-641-61	Sequence 61, Appl1	179	31	63.3	1194	2	US-09-435-115-2	Sequence 2, Appl1
107	31	63.3	61	2	US-09-249-471-61	Sequence 61, Appl1	180	31	63.3	1194	2	US-09-069-023-26	Sequence 26, Appl1
108	31	63.3	61	2	US-09-249-472-61	Sequence 61, Appl1	181	31	63.3	1194	2	US-09-098-310-2	Sequence 2, Appl1
109	31	63.3	61	2	US-09-249-451-61	Sequence 61, Appl1	182	31	63.3	1194	2	US-09-538-092-825	Sequence 825, App
110	31	63.3	61	2	US-08-809-455-61	Sequence 61, Appl1	183	31	63.3	1194	2	US-09-949-016-10065	Sequence 6030, Ap
111	31	63.3	61	2	US-09-249-461-61	Sequence 61, Appl1	184	31	63.3	1196	2	US-09-949-016-10065	Sequence 10065, A
112	31	63.3	61	2	US-09-249-448-61	Sequence 61, Appl1	185	31	63.3	1205	2	US-09-092-508-16	Sequence 16, Appl1
113	31	63.3	61	2	US-09-249-473-61	Sequence 61, Appl1	186	31	63.3	1205	2	US-09-435-115-16	Sequence 16, Appl1
114	31	63.3	61	2	US-09-498-556-61	Sequence 61, Appl1	187	31	63.3	1307	2	US-09-949-016-6842	Sequence 6842, Ap
115	31	63.3	70	2	US-09-430-029-2	Sequence 2, Appl1	188	31	63.3	1239	2	US-09-949-016-10063	Sequence 10063, A
116	31	63.3	76	1	US-08-465-380-29	Sequence 29, Appl1	189	31	63.3	1239	2	US-09-949-016-10064	Sequence 10064, A
117	31	63.3	76	1	US-08-480-478-58	Sequence 58, Appl1	190	31	63.3	1239	2	US-09-949-016-10064	Sequence 10064, A
118	31	63.3	76	1	US-08-486-397-29	Sequence 29, Appl1	191	31	63.3	1239	2	US-09-296-663-34	Sequence 34, Appl1
119	31	63.3	76	1	US-08-486-397-29	Sequence 29, Appl1	192	30	61.2	38	2	US-09-172-841-5	Sequence 5, Appl1
120	31	63.3	76	1	US-08-461-965-29	Sequence 29, Appl1	193	30	61.2	38	2	US-09-172-841-7	Sequence 7, Appl1
121	31	63.3	76	1	US-08-326-110A-58	Sequence 29, Appl1	194	30	61.2	38	2	US-08-951-621-5	Sequence 5, Appl1
122	31	63.3	76	1	US-08-634-641-29	Sequence 29, Appl1	195	30	61.2	38	2	US-08-951-621-7	Sequence 7, Appl1
123	31	63.3	76	2	US-09-249-471-29	Sequence 29, Appl1	196	30	61.2	48	2	US-09-385-219A-75	Sequence 75, Appl1
124	31	63.3	76	2	US-09-249-472-29	Sequence 29, Appl1	197	30	61.2	48	2	US-09-492-709A-344	Sequence 344, App
125	31	63.3	76	2	US-09-249-451-29	Sequence 29, Appl1	198	30	61.2	91	2	US-09-342-647-20	Sequence 20, Appl
126	31	63.3	76	2	US-08-809-455-29	Sequence 29, Appl1	199	30	61.2	94	2	US-09-621-976-4310	Sequence 4330, Ap
127	31	63.3	76	2	US-09-249-461-29	Sequence 29, Appl1	200	30	61.2	120	1	US-08-637-758B-569	Sequence 269, App
128	31	63.3	76	2	US-09-249-448-29	Sequence 29, Appl1	201	30	61.2	120	2	US-08-871-355A-269	Sequence 269, App
129	31	63.3	76	2	US-09-249-473-29	Sequence 29, Appl1	202	30	61.2	120	2	US-09-201-945-269	Sequence 269, App
130	31	63.3	76	2	US-09-498-556-29	Sequence 29, Appl1	203	30	61.2	131	2	US-09-513-999C-6732	Sequence 6732, Ap
131	31	63.3	83	2	US-09-252-991A-27894	Sequence 27894, A	204	30	61.2	140	2	US-09-621-976-4250	Sequence 4250, Ap
132	31	63.3	91	2	US-09-621-976-7046	Sequence 7046, Ap	205	30	61.2	152	2	US-09-270-767-41159	Sequence 41159, A
133	31	63.3	108	2	US-09-489-039A-14188	Sequence 14188, A	206	30	61.2	152	2	US-09-270-767-55494	Sequence 55494, A
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135	31	63.3	138	2	US-09-621-976-7244	Sequence 7244, Ap	208	30	61.2	176	2	US-09-513-999C-5044	Sequence 5044, Ap
136	31	63.3	145	2	US-09-513-999C-4238	Sequence 4238, Ap	209	30	61.2	184	2	US-08-974-899-7	Sequence 8, Appl1
137	31	63.3	157	2	US-09-621-976-5263	Sequence 5263, Ap	210	30	61.2	184	2	US-08-974-899-8	Sequence 8, Appl1
138	31	63.3	211	2	US-09-602-787A-18	Sequence 18, Appl1	211	30	61.2	184	2	US-09-795-798-7	Sequence 7, Appl1
139	31	63.3	219	2	US-09-388-221B-21	Sequence 21, Appl1	212	30	61.2	184	2	US-09-795-798-8	Sequence 8, Appl1
140	31	63.3	224	2	US-09-252-991A-25249	Sequence 25249, A	213	30	61.2	185	2	US-09-270-767-33277	Sequence 39277, A
141	31	63.3	248	2	US-09-252-991A-20077	Sequence 20077, A	214	30	61.2	185	2	US-09-270-767-61164	Sequence 54464, A
142	31	63.3	256	2	US-09-489-039A-7843	Sequence 7843, Ap	215	30	61.2	197	2	US-09-270-767-61164	Sequence 61164, A
143	31	63.3	267	2	US-09-489-039A-13450	Sequence 13450, A	216	30	61.2	211	2	US-09-543-681A-8111	Sequence 8111, Ap
144	31	63.3	308	2	US-10-014-269-31	Sequence 31, Appl1	217	30	61.2	221	2	US-09-248-796A-15073	Sequence 15073, A
145	31	63.3	310	2	US-09-902-540-15696	Sequence 15696, A	218	30	61.2	236	2	US-09-634-137-32	Sequence 32, Appl1
146	31	63.3	316	2	US-09-603-208A-40	Sequence 40, Appl1	219	30	61.2	251	2	US-09-175-014-2	Sequence 2, Appl1
147	31	63.3	382	2	US-09-252-991A-25676	Sequence 25676, A	220	30	61.2	255	2	US-09-252-991A-19444	Sequence 19444, A
148	31	63.3	403	2	US-09-026-001A-16	Sequence 16, Appl1	221	30	61.2	256	2	US-09-489-039A-12077	Sequence 12077, A
149	31	63.3	422	2	US-09-996-620-16	Sequence 16, Appl1	222	30	61.2	277	1	US-08-762-123-5	Sequence 5, Appl1
150	31	63.3	462	2	US-09-996-620-10	Sequence 10, Appl1	223	30	61.2	277	1	US-09-538-092-710	Sequence 710, App
151	31	63.3	481	2	US-09-248-796A-15894	Sequence 15894, A	224	30	61.2	277	2	US-09-949-016-6126	Sequence 6126, Ap
152	31	63.3	521	2	US-09-026-001A-12	Sequence 12, Appl1	225	30	61.2	283	2	US-09-180-109A-30	Sequence 30, Appl1
153	31	63.3	521	2	US-09-996-620-12	Sequence 12, Appl1	226	30	61.2	283	2	US-09-180-109A-30	Sequence 30, Appl1
154	31	63.3	525	2	US-09-248-796A-15927	Sequence 15927, A	227	30	61.2	283	2	US-09-252-991A-31323	Sequence 31323, A
155	31	63.3	524	1	US-08-524-051-2	Sequence 2, Appl1	228	30	61.2	296	2	US-09-543-681A-6856	Sequence 6856, Ap
156	31	63.3	554	2	US-09-052-778-16	Sequence 16, Appl1	229	30	61.2	307	1	US-08-948-616-3	Sequence 3, Appl1
157	31	63.3	592	2	US-09-026-001A-14	Sequence 14, Appl1	230	30	61.2	307	1	US-09-193-510-3	Sequence 3, Appl1
158	31	63.3	592	2	US-09-996-620-14	Sequence 14, Appl1	231	30	61.2	307	2	US-09-368-402-3	Sequence 3, Appl1
159	31	63.3	612	2	US-09-295-186-16	Sequence 16, Appl1	232	30	61.2	308	2	US-09-949-016-11042	Sequence 11042, A
160	31	63.3	612	2	US-09-248-796A-16533	Sequence 16533, A	233	30	61.2	346	2	US-09-252-991A-31323	Sequence 31323, A
161	31	63.3	613	2	US-09-026-001A-10	Sequence 10, Appl1	234	30	61.2	349	2	US-09-543-681A-6856	Sequence 6856, Ap
162	31	63.3	613	2	US-09-996-620-10	Sequence 10, Appl1	235	30	61.2	380	2	US-09-172-841-53	Sequence 53, Appl1
163	31	63.3	620	2	US-09-673-198-1	Sequence 1, Appl1	236	30	61.2	380	2	US-08-951-621-53	Sequence 53, Appl1
164	31	63.3	620	2	US-09-026-001A-18	Sequence 18, Appl1	237	30	61.2	393	2	US-09-252-991A-19643	Sequence 19643, A
165	31	63.3	621	2	US-09-996-620-18	Sequence 18, Appl1	238	30	61.2	398	2	US-09-328-352-7199	Sequence 7199, Ap
166	31	63.3	626	2	US-09-489-039A-13113	Sequence 13113, A	239	30	61.2	407	2	US-09-270-767-45652	Sequence 45652, A
167	31	63.3	635	2	US-09-543-681A-6140	Sequence 6140, Ap	240	30	61.2	423	1	US-10-314-048A-8	Sequence 8, Appl1
168	31	63.3	722	2	US-09-134-001C-5482	Sequence 5482, Ap	241	30	61.2	423	2	US-09-902-540-15550	Sequence 15550, A
169	31	63.3	757	2	US-09-538-092-520	Sequence 520, App	242	30	61.2	451	2	US-09-387-111-6	Sequence 37, Appl1
170	31	63.3	844	2	US-09-949-016-9438	Sequence 9438, Ap	243	30	61.2	466	2	US-09-900-423B-37	Sequence 37, Appl1
171	31	63.3	885	2	US-09-538-092-1319	Sequence 1319, Ap	244	30	61.2	474	2	US-08-387-111-6	Sequence 37, Appl1
172	31	63.3	920	2	US-09-763-620-35	Sequence 35, Appl1	245	30	61.2	476	1	US-08-955-713-4	Sequence 4, Appl1
173	31	63.3	971	1	US-08-480-662-2	Sequence 2, Appl1	246	30	61.2	491	2	US-09-252-991A-19230	Sequence 19230, A



247	30	61.2	499	2	US-09-328-352-5415	Sequence 5415, Ap	320	29	59.2	267	2	US-09-248-796A-15422	Sequence 15422, A
248	30	61.2	511	2	US-09-248-796A-16380	Sequence 16380, A	321	29	59.2	272	2	US-09-270-767-46084	Sequence 46084, A
249	30	61.2	545	2	US-09-270-767-46738	Sequence 46738, A	322	29	59.2	272	2	US-10-141-604-6	Sequence 6, Appl1
250	30	61.2	589	2	US-10-261-164-2	Sequence 2, Appl1	323	29	59.2	280	2	US-09-270-767-32909	Sequence 32909, A
251	30	61.2	521	2	US-09-248-796A-14458	Sequence 14458, A	324	29	59.2	280	2	US-09-270-767-48126	Sequence 29146, A
252	30	61.2	621	2	US-09-385-219A-55	Sequence 56, Appl1	325	29	59.2	282	2	US-09-252-991A-29144	Sequence 29144, A
253	30	61.2	621	2	US-09-949-016-11562	Sequence 11562, A	326	29	59.2	282	2	US-09-902-540-15311	Sequence 15311, A
254	30	61.2	641	2	US-09-687-538B-8	Sequence 8, Appl1	327	29	59.2	292	2	US-09-199-637A-419	Sequence 419, App
255	30	61.2	641	2	US-10-309-437-8	Sequence 8, Appl1	328	29	59.2	294	2	US-09-538-092-215	Sequence 215, App
256	30	61.2	644	2	US-09-270-767-42926	Sequence 42926, A	329	29	59.2	306	2	US-09-134-001C-3516	Sequence 6849, Ap
257	30	61.2	668	2	US-09-302-812-6	Sequence 6, Appl1	330	29	59.2	307	2	US-09-543-681A-6849	Sequence 3269, Ap
258	30	61.2	668	2	US-09-511-507-6	Sequence 6, Appl1	331	29	59.2	317	2	US-09-583-110-3269	Sequence 17114, A
259	30	61.2	668	2	US-09-511-507-6	Sequence 6, Appl1	332	29	59.2	318	2	US-09-252-991A-11174	Sequence 2, Appl1
260	30	61.2	668	2	US-09-973-451-6	Sequence 6, Appl1	333	29	59.2	321	1	US-08-780-370A-2	Sequence 2, Appl1
261	30	61.2	668	2	US-09-973-451-6	Sequence 6, Appl1	334	29	59.2	321	2	US-09-251-330-2	Sequence 2639, Ap
262	30	61.2	976	2	US-09-302-812-4	Sequence 4, Appl1	335	29	59.2	330	2	US-10-104-047-2839	Sequence 2839, Ap
263	30	61.2	976	2	US-09-511-507-4	Sequence 4, Appl1	336	29	59.2	332	1	US-08-960-756-4	Sequence 4, Appl1
264	30	61.2	976	2	US-09-973-451-4	Sequence 4, Appl1	337	29	59.2	332	2	US-08-660-756-4	Sequence 4, Appl1
265	30	61.2	977	2	US-09-302-812-2	Sequence 2, Appl1	338	29	59.2	334	2	US-10-141-604-2	Sequence 9, Appl1
266	30	61.2	977	2	US-09-511-477-2	Sequence 2, Appl1	339	29	59.2	340	2	US-09-902-540-10798	Sequence 10798, A
267	30	61.2	977	2	US-09-511-507-2	Sequence 2, Appl1	340	29	59.2	342	2	US-10-141-604-9	Sequence 15257, A
268	30	61.2	977	2	US-09-973-451-2	Sequence 2, Appl1	341	29	59.2	342	2	US-09-248-796A-15257	Sequence 7, Appl1
269	30	61.2	1065	2	US-08-630-172-9	Sequence 9, Appl1	342	29	59.2	349	2	US-08-591-685-7	Sequence 13640, A
270	30	61.2	1065	2	US-09-375-419-9	Sequence 9, Appl1	343	29	59.2	351	2	US-09-489-039A-13640	Sequence 6513, Ap
271	30	61.2	1065	2	US-09-375-419-9	Sequence 9, Appl1	344	29	59.2	352	2	US-09-543-681A-6513	Sequence 1070, Ap
272	30	61.2	1170	1	US-08-789-078-2	Sequence 2, Appl1	345	29	59.2	357	2	US-09-198-452A-1070	Sequence 997, App
273	30	61.2	1170	1	US-08-789-078-2	Sequence 2, Appl1	346	29	59.2	358	2	US-09-438-185A-997	Sequence 13, Appl
274	30	61.2	1170	4	PCT-US95-04886-2	Sequence 1, Appl1	347	29	59.2	360	1	US-08-459-346-13	Sequence 4, Appl1
275	30	61.2	1170	4	PCT-US95-04886-2	Sequence 1, Appl1	348	29	59.2	360	1	US-08-411-607A-4	Sequence 13, Appl
276	30	61.2	1323	2	US-09-489-039A-13945	Sequence 13945, A	349	29	59.2	360	2	US-08-889-419-13	Sequence 13, Appl
277	30	61.2	1326	2	US-09-252-991A-17932	Sequence 17932, A	350	29	59.2	360	2	US-08-402-542-13	Sequence 4, Appl1
278	30	61.2	1374	2	US-09-900-425B-2	Sequence 2, Appl1	351	29	59.2	360	2	US-09-361-741-4	Sequence 4, Appl1
279	30	61.2	1886	2	US-08-938-105-3	Sequence 3, Appl1	352	29	59.2	360	2	US-09-461-418-4	Sequence 13, Appl
280	30	61.2	1937	2	US-09-538-092-916	Sequence 916, App	353	29	59.2	367	2	US-08-586-165-7	Sequence 7, Appl1
281	30	61.2	1937	2	US-09-538-092-916	Sequence 916, App	354	29	59.2	367	2	US-09-107-433-3289	Sequence 3289, Ap
282	30	61.2	1939	2	US-09-310-187A-1	Sequence 1, Appl1	355	29	59.2	372	2	US-09-543-681A-7421	Sequence 7421, Ap
283	30	61.2	1939	2	US-09-538-092-915	Sequence 915, App	356	29	59.2	372	2	US-08-586-165-3	Sequence 3, Appl1
284	30	61.2	1939	2	US-09-538-092-915	Sequence 915, App	357	29	59.2	372	2	US-08-586-165-5	Sequence 4164, A
285	30	61.2	1939	2	US-09-949-016-5925	Sequence 6925, App	358	29	59.2	372	2	US-09-270-767-4164	Sequence 8, Appl1
286	30	61.2	1939	2	US-09-949-016-11104	Sequence 11104, A	359	29	59.2	373	2	US-09-039-198A-15	Sequence 11, Appl
287	30	61.2	1942	2	US-09-949-016-11104	Sequence 11104, A	360	29	59.2	373	2	US-09-039-198A-15	Sequence 15, Appl
288	30	61.2	1942	2	US-09-949-016-11104	Sequence 11104, A	361	29	59.2	373	2	US-08-877-599-15	Sequence 14, Appl
289	30	61.2	1944	2	US-09-949-016-10929	Sequence 8135, App	362	29	59.2	373	2	US-09-267-574-14	Sequence 15, Appl
290	30	61.2	1963	2	US-09-949-016-8888	Sequence 8888, Ap	363	29	59.2	373	2	US-09-267-574-15	Sequence 460, App
291	30	61.2	2987	1	US-08-970-269A-29	Sequence 29, Appl	364	29	59.2	387	1	US-08-968-839-6	Sequence 6, Appl1
292	30	61.2	2987	1	US-08-970-269A-29	Sequence 29, Appl	365	29	59.2	387	2	US-09-313-623-6	Sequence 6, Appl1
293	30	61.2	3959	1	US-08-407-562A-30	Sequence 30, Appl	366	29	59.2	387	2	US-09-977-827-6	Sequence 6, Appl1
294	30	61.2	3959	2	US-09-407-562A-30	Sequence 30, Appl	367	29	59.2	387	2	US-09-977-827-6	Sequence 48, Appl
295	29	59.2	659	2	US-09-252-991A-17333	Sequence 17333, A	368	29	59.2	391	2	US-09-721-870-38	Sequence 38, Appl
296	29	59.2	15	1	US-07-909-122-2	Sequence 2, Appl1	369	29	59.2	409	2	US-09-258-754-449	Sequence 449, App
297	29	59.2	15	2	US-08-075-541D-52	Sequence 52, Appl	370	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
298	29	59.2	23	1	US-08-363-586-3	Sequence 3, Appl1	371	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
299	29	59.2	23	1	US-08-687-702-6	Sequence 6, Appl1	372	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
300	29	59.2	26	1	US-08-467-587A-16	Sequence 16, Appl	373	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
301	29	59.2	56	2	US-09-676-475A-449	Sequence 449, App	374	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
302	29	59.2	72	1	US-08-542-363-13	Sequence 13, Appl	375	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
303	29	59.2	72	1	US-08-542-363-13	Sequence 13, Appl	376	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
304	29	59.2	72	2	US-09-670-827-13	Sequence 13, Appl	377	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
305	29	59.2	72	2	US-09-670-827-13	Sequence 13, Appl	378	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
306	29	59.2	72	2	US-09-670-827-13	Sequence 13, Appl	379	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
307	29	59.2	89	2	US-09-248-796A-21511	Sequence 21511, A	380	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
308	29	59.2	102	2	US-09-621-976-6768	Sequence 6768, Ap	381	29	59.2	410	2	US-09-676-475A-451	Sequence 451, App
309	29	59.2	102	2	US-08-477-347-9	Sequence 9, Appl1	382	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
310	29	59.2	109	2	US-09-800-908-9	Sequence 9, Appl1	383	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
311	29	59.2	123	2	US-09-270-767-61636	Sequence 61636, A	384	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
312	29	59.2	123	2	US-09-270-767-39247	Sequence 39247, A	385	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
313	29	59.2	123	2	US-09-270-767-61636	Sequence 61636, A	386	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
314	29	59.2	135	2	US-09-489-039A-10659	Sequence 10659, A	387	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
315	29	59.2	148	2	US-09-270-767-43240	Sequence 43240, A	388	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
316	29	59.2	181	2	US-09-270-767-54464	Sequence 54464, A	389	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
317	29	59.2	206	2	US-09-141-604-7	Sequence 7, Appl1	390	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
318	29	59.2	225	2	US-09-270-767-42691	Sequence 42691, A	391	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
319	29	59.2	225	2	US-09-270-767-39025	Sequence 39025, A	392	29	59.2	411	2	US-09-258-754-448	Sequence 448, App
			255	2	US-09-270-767-54242	Sequence 54242, A							
			255	2	US-09-270-767-41713	Sequence 41713, A							
			265	2	US-10-141-604-5	Sequence 5, Appl1							

393	29	59.2	466	2	US-09-267-574-2	Sequence 2, Appl1	466	29	59.2	1620	2	US-09-827-949-2	Sequence 2, Appl1
394	29	59.2	466	2	US-09-267-574-4	Sequence 4, Appl1	467	29	59.2	1711	2	US-08-369-822C-10	Sequence 10, Appl1
395	29	59.2	466	2	US-09-977-827-4	Sequence 4, Appl1	468	29	59.2	1711	2	US-08-582-776C-10	Sequence 10, Appl1
396	29	59.2	512	2	US-09-464-377-9	Sequence 9, Appl1	469	29	59.2	1711	2	US-08-434-831B-10	Sequence 10, Appl1
397	29	59.2	522	2	US-09-949-016-10663	Sequence 10663, A	470	29	59.2	2220	2	US-09-335-011-1	Sequence 1, Appl1
398	29	59.2	525	1	US-08-160-861-4	Sequence 4, Appl1	471	29	59.2	2476	1	US-08-276-667-2	Sequence 2, Appl1
399	29	59.2	530	2	US-08-979-608A-8	Sequence 8, Appl1	472	29	59.2	3418	1	US-08-639-501-2	Sequence 2, Appl1
400	29	59.2	530	2	US-09-517-849-8	Sequence 8, Appl1	473	29	59.2	3418	1	US-08-603-753D-4	Sequence 4, Appl1
401	29	59.2	530	2	US-09-516-889-8	Sequence 8, Appl1	474	29	59.2	3418	2	US-09-044-946-2	Sequence 2, Appl1
402	29	59.2	530	2	US-09-976-740-8	Sequence 8, Appl1	475	29	59.2	3418	2	US-08-755-587-44	Sequence 44, Appl1
403	29	59.2	546	2	US-09-616-289-44	Sequence 44, Appl1	476	29	59.2	3418	2	US-09-044-908-2	Sequence 2, Appl1
404	29	59.2	546	2	US-09-976-740-44	Sequence 44, Appl1	477	29	59.2	3418	2	US-09-099-753-4	Sequence 4, Appl1
405	29	59.2	557	2	US-08-979-608A-5	Sequence 5, Appl1	478	29	59.2	3418	2	US-08-986-106-4	Sequence 4, Appl1
406	29	59.2	557	2	US-09-517-849-5	Sequence 5, Appl1	479	28	57.1	21	1	US-08-355-888A-15	Sequence 15, Appl1
407	29	59.2	557	2	US-09-616-289-5	Sequence 5, Appl1	480	28	57.1	21	1	US-08-693-697-15	Sequence 15, Appl1
408	29	59.2	557	2	US-09-976-740-5	Sequence 5, Appl1	481	28	57.1	21	1	US-08-693-697-34	Sequence 34, Appl1
409	29	59.2	571	2	US-09-973-180A-2	Sequence 2, Appl1	482	28	57.1	21	2	US-08-588-526-4	Sequence 4, Appl1
410	29	59.2	571	2	US-09-973-180A-3	Sequence 3, Appl1	483	28	57.1	21	2	US-08-693-696-15	Sequence 15, Appl1
411	29	59.2	571	2	US-09-973-180A-4	Sequence 4, Appl1	484	28	57.1	21	2	US-09-357-914-15	Sequence 15, Appl1
412	29	59.2	571	2	US-09-949-016-6878	Sequence 6878, Ap	485	28	57.1	37	2	US-09-084-303B-283	Sequence 283, App
413	29	59.2	572	1	US-08-160-861-3	Sequence 3, Appl1	486	28	57.1	50	2	US-09-149-476-425	Sequence 425, App
414	29	59.2	589	2	US-09-538-092-1194	Sequence 1194, Ap	487	28	57.1	70	2	US-09-149-476-581	Sequence 581, App
415	29	59.2	605	2	US-09-949-016-8003	Sequence 8003, Ap	488	28	57.1	74	2	US-09-513-999C-5668	Sequence 5668, Ap
416	29	59.2	638	2	US-10-104-047-2495	Sequence 2495, Ap	489	28	57.1	74	2	US-09-122-135-3	Sequence 3, Appl1
417	29	59.2	640	2	US-09-687-538B-2	Sequence 2, Appl1	490	28	57.1	76	2	US-09-513-999C-4685	Sequence 4685, Ap
418	29	59.2	640	2	US-10-509-437-2	Sequence 2, Appl1	491	28	57.1	78	2	US-09-949-016-9824	Sequence 9824, Ap
419	29	59.2	673	1	US-08-282-141-3	Sequence 3, Appl1	492	28	57.1	80	2	US-09-084-303B-15	Sequence 15, Appl1
420	29	59.2	673	1	US-08-335-434-1	Sequence 1, Appl1	493	28	57.1	80	2	US-09-513-999C-5667	Sequence 5667, Ap
421	29	59.2	673	1	US-08-435-436-1	Sequence 1, Appl1	494	28	57.1	82	2	US-09-198-4452A-1103	Sequence 1103, Ap
422	29	59.2	673	1	US-08-438-863-1	Sequence 1, Appl1	495	28	57.1	82	2	US-09-270-767-58234	Sequence 58234, A
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549	28	57.1	211	2	US-08-898-649-6	Sequence 6, Appli	622	28	57.1	349	1	US-08-880-031-2	Sequence 2, Appli
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582	28	57.1	293	2	US-10-058-993-83	Sequence 83, Appl	655	28	57.1	435	1	US-08-484-105-12	Sequence 12, Appl
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592	28	57.1	296	2	US-09-906-618-207	Sequence 207, App	665	28	57.1	468	1	US-08-204-656B-6	Sequence 6, Appli
593	28	57.1	296	2	US-09-852-797-60	Sequence 60, Appl	666	28	57.1	468	1	US-08-204-656B-8	Sequence 8, Appli
594	28	57.1	296	2	US-09-904-462-207	Sequence 207, App	667	28	57.1	468	1	US-08-470-702-6	Sequence 7, Appli
595	28	57.1	296	2	US-09-902-736A-207	Sequence 207, App	668	28	57.1	468	1	US-08-470-702-8	Sequence 8, Appli
596	28	57.1	296	2	US-09-853-161-60	Sequence 60, Appl	669	28	57.1	468	1	US-08-470-702-9	Sequence 9, Appli
597	28	57.1	296	2	US-09-906-722A-207	Sequence 207, App	670	28	57.1	468	1	US-08-467-831-6	Sequence 6, Appli
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686	28	57.1	485	2	US-10-154-674-6	Sequence 6, App11	759	28	57.1	1001	2	US-10-046-433-40	Sequence 40, App1
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689	28	57.1	490	2	US-10-154-674-2	Sequence 2, App11	762	28	57.1	1009	2	US-09-762-724-10	Sequence 10, App1
690	28	57.1	494	2	US-08-689-974-3	Sequence 3, App11	763	28	57.1	1013	2	US-10-144-198-26	Sequence 26, App1
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692	28	57.1	497	1	US-08-009-075-4	Sequence 4, App11	765	28	57.1	1038	2	US-09-949-002-309	Sequence 309, App
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701	28	57.1	554	2	US-09-248-796A-17228	Sequence 17228, A	774	28	57.1	1139	1	US-08-832-883-2	Sequence 2, App11
702	28	57.1	555	2	US-09-134-000C-5773	Sequence 5773, Ap	775	28	57.1	1139	1	US-08-832-877-2	Sequence 2, App11
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705	28	57.1	574	2	US-09-802-839-2	Sequence 2, App11	778	28	57.1	1261	2	US-09-566-076-2	Sequence 2, App11
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707	28	57.1	595	2	US-10-104-047-2714	Sequence 2714, Ap	780	28	57.1	1300	2	US-09-543-681A-4501	Sequence 4501, Ap
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## ALIGNMENTS

RESULT 1  
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NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
ADDRESSEE: Dunner  
STREET: 1300 I Street, N.W., Suite 700  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:  
NAME: Manspeizer, David A.  
REGISTRATION NUMBER: 37,540  
REFERENCE/DOCKET NUMBER: 05552.1075-03000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)408-4000  
TELEFAX: (202)408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-2  
Query Match 100.0%; Score 49; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.025;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 KLPDICTEL 9  
|||  
Db 8 KLPDICTEL 16

RESULT 2  
US-08-164-768-2  
Sequence 2, Application US/08164768  
PATENT NO. 6322794  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISSMANN, Lutz  
APPLICANT: MULLER, Martin  
TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FINNEGAN, HENDERSON, FARABOW, GARRETT &  
ADDRESSEE: DUNNER, L.L.P.  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Fortman, David S.  
REGISTRATION NUMBER: 33,694  
REFERENCE/DOCKET NUMBER: 05552.1075-02000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-164-768-2  
Query Match 100.0%; Score 49; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.025;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLDPDLCTEL 9  
Db 8 KLDPDLCTEL 16

## RESULT 3

US-08-247-904B-10  
; Sequence 10, Application US/08247904B  
; Patent No. 5981699  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Eckstein, Jens W.  
; APPLICANT: Draetta, Giulio  
; TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley, Hoag & Eliot  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII(text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/247,904B  
; FILING DATE: 23-MAY-1994  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.  
; REGISTRATION NUMBER: 36,709  
; REFERENCE/DOCKET NUMBER: MIV-029.01  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 832-1000  
; TELEFAX: (617) 832-7000  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 158 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-247-904B-10

Query Match 100.0%; Score 49; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.13;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLDPDLCTEL 9  
Db 13 KLDPDLCTEL 21

## RESULT 4

US-08-767-942A-19  
; Sequence 19, Application US/08767942A  
; Patent No. 6068962  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Chiu, M. Isabel  
; APPLICANT: Berlin, Vivian  
; APPLICANT: Damagnez, Veronique  
; APPLICANT: Draetta, Giulio  
; APPLICANT: Guillaume, Cottarel  
; TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
; NUMBER OF SEQUENCES: 45  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA

COUNTRY: USA  
ZIP: 02109-2170

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/767,942A  
; FILING DATE: 17-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.  
; REGISTRATION NUMBER: 36,709  
; REFERENCE/DOCKET NUMBER: MIV-029.04  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-832-7000  
; TELEFAX: 617-832-1000  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 158 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-767-942A-19

Query Match 100.0%; Score 49; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.13;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLDPDLCTEL 9  
Db 13 KLDPDLCTEL 21

## RESULT 5

US-08-117-083-14  
; Sequence 14, Application US/08117083  
; Patent No. 5719054  
; GENERAL INFORMATION:  
; APPLICANT: Boursnell, Michael E.  
; APPLICANT: Inglis, Stephen C.  
; APPLICANT: Munro, Alan J.  
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
; NUMBER OF SEQUENCES: 70  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Walter H. Dreger  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/117,083  
; FILING DATE: 10-SEP-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dreger, Walter H.  
; REGISTRATION NUMBER: 24,190  
; REFERENCE/DOCKET NUMBER: A-58783  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-781-1989  
; TELEFAX: 415-398-3249  
; TELEEX: 910 277299  
; INFORMATION FOR SEQ ID NO: 14:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 271 amino acids  
; TYPE: amino acid

STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note= "Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 49; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 14 KLPDLCTEL 22

RESULT 6  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernandez  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 971953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 49; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.25;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 124 KLPDLCTEL 132

RESULT 7  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernandez  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 971953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 49; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.34;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 124 KLPDLCTEL 132

RESULT 8  
US-08-787-547-101  
Sequence 101, Application US/08787547  
Patent No. 5783567  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Curley, Joanne M.  
APPLICANT: Langer, Robert S.  
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY  
TITLE OF INVENTION: OF NUCLEIC ACID  
NUMBER OF SEQUENCES: 107  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/787,547  
FILING DATE: 22-JAN-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/003001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 101:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-787-547-101

Query Match 87.8%; Score 43; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
Db 1 KLPDLCTEL 9

RESULT 9  
US-09-601-729-274



Sequence 274, Application US/09601729  
Patent No. 6683052  
GENERAL INFORMATION:  
APPLICANT: THIAM, KADER  
APPLICANT: AURIAULT, CLAUDE  
APPLICANT: GRAS-MAISE, HELENE  
APPLICANT: LOING, ESTELLE  
APPLICANT: VERMAERDE, CLAUDE  
APPLICANT: GUILLET, JEAN GERARD  
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES  
TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS  
FILE REFERENCE: USB-97-AU-IN  
CURRENT APPLICATION NUMBER: US/09/601,729  
PRIOR FILING DATE: 2000-11-20  
PRIOR APPLICATION NUMBER: PCT/FR99/00259  
PRIOR FILING DATE: 1999-02-05  
PRIOR APPLICATION NUMBER: 98 01439  
NUMBER OF SEQ ID NOS: 281  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 274  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-601-729-274  
Query Match 87.8%; Score 43; DB 2; Length 9;  
Best Local Similarity 88.9%; Pred. No. 4.6e+05;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 KLPDLCTEL 9  
DB 1 KLPDLCTEL 9

RESULT 10  
US-08-934-915-159  
Sequence 159, Application US/08934915  
Patent No. 5932412  
GENERAL INFORMATION:  
APPLICANT: DILLNER, JOAKIM  
APPLICANT: DILLNER, LENA  
APPLICANT: CHENG, HWEI-MING  
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN  
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR  
TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
NUMBER OF SEQUENCES: 193  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MASON & ASSOCIATES, P.A.  
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
CITY: CLEARWATER  
STATE: FLORIDA  
COUNTRY: U.S.A.  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Windows 3.0  
SOFTWARE: Microsoft Word 6.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/934,915  
FILING DATE: 22-SEP-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/949,836  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: LOUISE A. Foutch  
REGISTRATION NUMBER: 37,133

REFERENCE/DOCKET NUMBER: 1946.6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 813-538-3800  
TELEFAX: 813-538-3820  
TELEX:  
INFORMATION FOR SEQ ID NO: 159:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-934-915-159  
Query Match 87.8%; Score 43; DB 1; Length 20;  
Best Local Similarity 88.9%; Pred. No. 0.19;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 KLPDLCTEL 9  
DB 2 KLPDLCTEL 10

RESULT 11  
US-08-363-586-4  
Sequence 4, Application US/08363586  
Patent No. 5629161  
GENERAL INFORMATION:  
APPLICANT: Mueller, Martin  
APPLICANT: Giesmann, Lutz  
TITLE OF INVENTION: Use of HPV-16 E6 and E7-Gene Derived  
TITLE OF INVENTION: Peptides for the Diagnostic Purpose  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
ADDRESS: Dunner  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/363,586  
FILING DATE: 23-DEC-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/909,296  
FILING DATE: 09-JUL-1992  
APPLICATION NUMBER: EP 91111720.8  
FILING DATE: 13-JUL-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Wadler, Linda A.  
REGISTRATION NUMBER: 33,218  
REFERENCE/DOCKET NUMBER: 02481-1195-00000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-408-4000  
TELEFAX: 202-408-4400  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-363-586-4  
Query Match 87.8%; Score 43; DB 1; Length 30;  
Best Local Similarity 88.9%; Pred. No. 0.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||  
Db 11 KLPOLCTEL 19

RESULT 12  
US-09-980-523A-4  
; Sequence 4, Application US/09980523A  
; Patent No. 6783763  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCINE  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION  
; FILE REFERENCE: WO/01 AO INS  
; CURRENT APPLICATION NUMBER: US/09/980,523A  
; CURRENT FILING DATE: 2002-04-29  
; PRIOR APPLICATION NUMBER: PCT/FR00/01513  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: FR 99/07012  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 30  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-09-980-523A-4

Query Match 87.8%; Score 43; DB 2; Length 30;  
Best Local Similarity 88.9%; Pred. No. 0.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||  
Db 4 KLPOLCTEL 12

RESULT 13  
US-09-701-080C-18  
; Sequence 18, Application US/09701080C  
; Patent No. 6864054  
; GENERAL INFORMATION:  
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY  
; TITLE OF INVENTION: TRANSCRIPTOMIAL REGULATION  
; FILE REFERENCE: N73477C GCM  
; CURRENT APPLICATION NUMBER: US/09/701,080C  
; CURRENT FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: GB 9811303.8  
; PRIOR FILING DATE: 1998-05-26  
; PRIOR APPLICATION NUMBER: GB 9900157.0  
; PRIOR FILING DATE: 1999-01-05  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 151  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-09-701-080C-18

Query Match 87.8%; Score 43; DB 2; Length 151;  
Best Local Similarity 88.9%; Pred. No. 1.6;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||  
Db 11 KLPOLCTEL 19

RESULT 14  
US-09-980-523A-2  
; Sequence 2, Application US/09980523A  
; Patent No. 6783763  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCINE  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION  
; FILE REFERENCE: WO/01 AO INS  
; CURRENT APPLICATION NUMBER: US/09/980,523A  
; CURRENT FILING DATE: 2002-04-29  
; PRIOR APPLICATION NUMBER: PCT/FR00/01513  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: FR 99/07012  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-09-980-523A-2

Query Match 87.8%; Score 43; DB 2; Length 158;  
Best Local Similarity 88.9%; Pred. No. 1.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||  
Db 18 KLPOLCTEL 26

RESULT 15  
US-08-316-239B-3  
; Sequence 3, Application US/08316239B  
; Patent No. 5679509  
; GENERAL INFORMATION:  
; APPLICANT: Wheeler, Colette M.  
; APPLICANT: Parmenter, Cheryl A.  
; TITLE OF INVENTION: Methods and a Diagnostic Aid for  
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Jagtiani & Associates  
; STREET: 6126 Rocky Way Court  
; CITY: Centerville  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 20120-3400  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/316,239B  
; FILING DATE: 30-SEP-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jagtiani, Ajay A.  
; REGISTRATION NUMBER: 35,205  
; REFERENCE/DOCKET NUMBER: UNME-0001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 817-9453  
; TELEFAX: (703) 803-9387

INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 162 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
US-08-316-239B-3

Query Match 87.8%; Score 43; DB 1; Length 162;  
Best Local Similarity 88.9%; Pred. No. 1.8;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLDPOLCTEL 9  
Db 18 KLDPOLCTEL 26

## RESULT 16

US-08-316-239B-4  
Sequence 4, Application US/083162398  
Patent No. 5679509  
GENERAL INFORMATION:  
APPLICANT: Wheeler, Cosette M.  
APPLICANT: Parmenter, Cheryl A.  
TITLE OF INVENTION: Methods and a Diagnostic Aid for  
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
TITLE OF INVENTION: Cervical Cancer  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Jagtiani & Associates  
STREET: 6126 Rocky Way Court  
CITY: Centreville  
STATE: VA  
COUNTRY: USA  
ZIP: 20120-3400  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/316,239B  
FILING DATE: 30-SEP-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jagtiani, Ajay A.  
REGISTRATION NUMBER: 35,205  
REFERENCE/DOCKET NUMBER: UNME-0001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 817-9453  
TELEFAX: (703) 803-9387  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 162 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
US-08-316-239B-4

Query Match 87.8%; Score 43; DB 1; Length 162;  
Best Local Similarity 88.9%; Pred. No. 1.8;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLDPOLCTEL 9  
Db 18 KLDPOLCTEL 26

## RESULT 17

US-08-860-165-14  
Sequence 14, Application US/08860165A  
Patent No. 6004557  
GENERAL INFORMATION:  
APPLICANT: EDWARDS, Stirling John  
APPLICANT: COX, John Cooper  
APPLICANT: WEBB, Elizabeth Ann  
APPLICANT: FRAZER, Ian  
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
FILE REFERENCE: 17227/130  
CURRENT APPLICATION NUMBER: US/08/860,165A  
CURRENT FILING DATE: 1997-09-22  
EARLIER APPLICATION NUMBER: PCT/AU95/00868  
EARLIER FILING DATE: 1995-12-20  
EARLIER APPLICATION NUMBER: AU PNO157  
EARLIER FILING DATE: 1994-12-20  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 14  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-14

Query Match 87.8%; Score 43; DB 2; Length 172;  
Best Local Similarity 88.9%; Pred. No. 1.9;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLDPOLCTEL 9  
Db 87 KLDPOLCTEL 95

## RESULT 18

US-09-359-382-14  
Sequence 14, Application US/09359382  
Patent No. 6306397  
GENERAL INFORMATION:  
APPLICANT: EDWARDS, Stirling John  
APPLICANT: COX, John Cooper  
APPLICANT: WEBB, Elizabeth Ann  
APPLICANT: FRAZER, Ian  
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
FILE REFERENCE: 017227/0148  
CURRENT APPLICATION NUMBER: US/09/359,382  
CURRENT FILING DATE: 1999-07-23  
EARLIER APPLICATION NUMBER: US 08/860,165  
EARLIER FILING DATE: 1997-09-22  
EARLIER APPLICATION NUMBER: PCT/AU95/00868  
EARLIER FILING DATE: 1995-12-20  
EARLIER APPLICATION NUMBER: AU PNO157/94  
EARLIER FILING DATE: 1994-12-20  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 14  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
US-09-359-382-14

Query Match 87.8%; Score 43; DB 2; Length 172;  
Best Local Similarity 88.9%; Pred. No. 1.9;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLDPOLCTEL 9  
Db 87 KLDPOLCTEL 95

## RESULT 19

US-08-117-083-10  
; Sequence 10, Application US/08117083  
; Patent No. 5719054  
; GENERAL INFORMATION:  
; APPLICANT: Bournselli, Michael E.  
; APPLICANT: Inglier, Stephen C.  
; APPLICANT: Munro, Alan J.  
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
; TITLE OF INVENTION: Papilloma Virus Proteins  
; NUMBER OF SEQUENCES: 70  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Walter H. Dregger  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/117,083  
; FILING DATE: 10-SEP-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dregger, Walter H.  
; REGISTRATION NUMBER: 24,190  
; REFERENCE/DOCKET NUMBER: A-58783  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-781-1989  
; TELEFAX: 415-398-3249  
; TELEX: 910 277299  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 182 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FEATURE:  
; NAME/KEY: Protein  
; LOCATION: 1..182  
; OTHER INFORMATION: /note= "Xaa refers to stop codon in  
; OTHER INFORMATION: the open reading frame."  
US-08-117-083-10  
  
Query Match 87.8%; Score 43; DB 1; Length 182;  
Best Local Similarity 88.9%; Pred. No. 2;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 KLPDLCTEL 9  
||| |||  
Db 19 KLPDLCTEL 27  
  
RESULT 20  
US-09-462-993-1  
; Sequence 1, Application US/09462993  
; Patent No. 6884786  
; GENERAL INFORMATION:  
; APPLICANT: KIENY, Marie-Paule  
; APPLICANT: BALLOU, Jean-Marc  
; APPLICANT: BIZOUARNE, Nadine  
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC  
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION  
; FILE REFERENCE: 017753-122  
; CURRENT APPLICATION NUMBER: US/09/462,993  
; CURRENT FILING DATE: 2000-04-17  
; PRIOR APPLICATION NUMBER: PCT/FR98/01576  
; PRIOR FILING DATE: 1998-07-17  
; PRIOR APPLICATION NUMBER: FR 97/09152

; PRIOR FILING DATE: 1997-07-18  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: PatentIn Ver. 2.2  
; SEQ ID NO 1  
; LENGTH: 243  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Derived from  
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein  
; OTHER INFORMATION: fused F protein signals, clone E6\*TMF.  
US-09-462-993-1  
  
Query Match 87.8%; Score 43; DB 2; Length 243;  
Best Local Similarity 88.9%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 KLPDLCTEL 9  
||| |||  
Db 46 KLPDLCTEL 54  
  
RESULT 21  
US-08-860-165-10  
; Sequence 10, Application US/08860165A  
; Patent No. 6004557  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 17227/130  
; CURRENT APPLICATION NUMBER: US/08/860,165A  
; CURRENT FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PNO157  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-10  
  
Query Match 87.8%; Score 43; DB 2; Length 266;  
Best Local Similarity 88.9%; Pred. No. 3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 KLPDLCTEL 9  
||| |||  
Db 18 KLPDLCTEL 26  
  
RESULT 22  
US-09-359-382-10  
; Sequence 10, Application US/09359382  
; Patent No. 6306397  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 017227/0148  
; CURRENT APPLICATION NUMBER: US/09/359,382  
; CURRENT FILING DATE: 1999-07-23  
; EARLIER APPLICATION NUMBER: US 08/860,165  
; EARLIER FILING DATE: 1997-09-22

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; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match      87.8%; Score 43; DB 2; Length 266;
Best Local Similarity 88.9%; Pred. No. 3;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      18 KLPOLCTEL 26

RESULT 23
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-02-13
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-19
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match      87.8%; Score 43; DB 2; Length 266;
Best Local Similarity 88.9%; Pred. No. 3;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      18 KLPOLCTEL 26

RESULT 24
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Homo sapien
```

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; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match      87.8%; Score 43; DB 2; Length 273;
Best Local Similarity 88.9%; Pred. No. 3.1;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      124 KLPOLCTEL 132

RESULT 25
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match      87.8%; Score 43; DB 2; Length 292;
Best Local Similarity 88.9%; Pred. No. 3.3;
Matches      8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      143 KLPOLCTEL 151

RESULT 26
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
```

ORGANISM: Homo sapien  
US-09-485-885-6

Query Match 87.8%; Score 43; DB 2; Length 371;  
Best Local Similarity 88.9%; Pred. No. 4.3;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
DB 124 KLPDLCTEL 132

RESULT 27  
US-09-485-885-14  
Sequence 14, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 14  
LENGTH: 390  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-14

Query Match 87.8%; Score 43; DB 2; Length 390;  
Best Local Similarity 88.9%; Pred. No. 4.5;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
DB 143 KLPDLCTEL 151

RESULT 28  
US-09-198-452A-1036  
Sequence 1036, Application US/09198452A  
Patent No. 6559294  
GENERAL INFORMATION:  
APPLICANT: Grifflais, R.  
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention  
FILE REFERENCE: 9710-003-999  
CURRENT APPLICATION NUMBER: US/09/198,452A  
CURRENT FILING DATE: 1998-11-24  
NUMBER OF SEQ ID NOS: 6649  
SEQ ID NO 1036  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
FEATURE:  
NAME/KEY: SITE  
LOCATION: 1...504  
OTHER INFORMATION: Xaa=unknown or other  
US-09-198-452A-1036

Query Match 81.6%; Score 40; DB 2; Length 504;  
Best Local Similarity 66.7%; Pred. No. 21;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
DB 206 KLPDLCTEL 214

RESULT 29  
US-09-438-185A-966  
Sequence 966, Application US/09438185A  
Patent No. 6822071  
GENERAL INFORMATION:  
APPLICANT: Stephens, Richard  
APPLICANT: Mitchell, Wayne  
APPLICANT: Kalman, Sue  
APPLICANT: Davis, Ronald  
APPLICANT: The Regents of the University of California  
TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence  
FILE REFERENCE: 018941-000411US  
CURRENT APPLICATION NUMBER: US/09/438,185A  
CURRENT FILING DATE: 2002-03-13  
PRIOR APPLICATION NUMBER: US 60/108,279  
PRIOR FILING DATE: 1998-11-12  
PRIOR APPLICATION NUMBER: US 60/128,606  
PRIOR FILING DATE: 1998-04-08  
NUMBER OF SEQ ID NOS: 1074  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 966  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
FEATURE:  
OTHER INFORMATION: Cpn0964  
US-09-438-185A-966

Query Match 81.6%; Score 40; DB 2; Length 504;  
Best Local Similarity 66.7%; Pred. No. 21;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
DB 206 KLPDLCTEL 214

RESULT 30  
US-09-543-681A-7711  
Sequence 7711, Application US/09543681A  
Patent No. 6605709  
GENERAL INFORMATION:  
APPLICANT: GARY BRITON  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 2709.1002-001  
CURRENT APPLICATION NUMBER: US/09/543,681A  
CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128,706  
PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344  
SEQ ID NO 7711  
LENGTH: 89  
TYPE: PRT  
ORGANISM: Proteus mirabilis  
US-09-543-681A-7711

Query Match 73.5%; Score 36; DB 2; Length 89;  
Best Local Similarity 100.0%; Pred. No. 18;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCTE 8  
DB 38 PDLCTE 43

RESULT 31

US-09-328-352-4646  
; Sequence 4646, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 4646  
; LENGTH: 108  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-4646

Query Match 73.5%; Score 36; DB 2; Length 108;  
Best Local Similarity 100.0%; Pred. No. 23;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCCTE 8  
|||  
Db 56 PDLCCTE 61

RESULT 32  
US-09-540-236-3305  
; Sequence 3305, Application US/09540236  
; Patent No. 6673910  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR  
; FILE REFERENCE: 2709.2005-001  
; CURRENT APPLICATION NUMBER: US/09/540,236  
; CURRENT FILING DATE: 2000-04-04  
; NUMBER OF SEQ ID NOS: 3840  
; SEQ ID NO 3305  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: M.catarhalis  
US-09-540-236-3305

Query Match 73.5%; Score 36; DB 2; Length 117;  
Best Local Similarity 100.0%; Pred. No. 25;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCCTE 8  
|||  
Db 69 PDLCCTE 74

RESULT 33  
US-09-489-039A-10689  
; Sequence 10689, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 10689  
; LENGTH: 410  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-10689

Query Match 73.5%; Score 36; DB 2; Length 410;  
Best Local Similarity 85.7%; Pred. No. 94;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LPDLCSE 8  
|||  
Db 264 LPDLCSE 270

RESULT 34  
US-09-270-767-38382  
; Sequence 38382, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 38382  
; LENGTH: 148  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-38382

Query Match 71.4%; Score 35; DB 2; Length 148;  
Best Local Similarity 85.7%; Pred. No. 49;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCCT 7  
|||  
Db 119 KLPDLCCT 125

RESULT 35  
US-09-270-767-53599  
; Sequence 53599, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 53599  
; LENGTH: 148  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-53599

Query Match 71.4%; Score 35; DB 2; Length 148;  
Best Local Similarity 85.7%; Pred. No. 49;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCCT 7  
|||  
Db 119 KLPDLCCT 125

RESULT 36  
US-09-673-395A-248  
; Sequence 248, Application US/09673395A  
; Patent No. 6620923  
; GENERAL INFORMATION:  
; APPLICANT: SPECHT, THOMAS

```

; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 248
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-673-395A-248

Query Match      69.4%; Score 34; DB 2; Length 161;
Best Local Similarity 85.7%; Pred. No. 81;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCT 7
Db      54 KLPDLCT 60

RESULT 37
US-09-902-540-10941
; Sequence 10941, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 10941
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-10941

Query Match      69.4%; Score 34; DB 2; Length 199;
Best Local Similarity 85.7%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 PDLCTEL 9
Db      58 PDLCTEL 64

RESULT 38
US-09-198-452A-1041
; Sequence 1041, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1041
; LENGTH: 307
; TYPE: PRT
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; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1041

Query Match      69.4%; Score 34; DB 2; Length 307;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LPDLCTEL 9
Db      285 LPDLCTEL 292

RESULT 39
US-10-104-047-3428
; Sequence 3428, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. 6943241el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3428
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-3428

Query Match      69.4%; Score 34; DB 2; Length 326;
Best Local Similarity 77.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      124 KLPDLCTEL 132

RESULT 40
US-08-481-968A-11
; Sequence 11, Application US/08481968A
; Patent No. 6300490
; GENERAL INFORMATION:
; APPLICANT: Huber, Brian
; APPLICANT: Richards, Cynthia
; TITLE OF INVENTION: Molecular Constructs Comprising a Carcinoembryonic Antigen (CEA)
; FILE REFERENCE: PB1087US4
; CURRENT APPLICATION NUMBER: US/08/481,968A
; CURRENT FILING DATE: 1998-06-07
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Varicella zoster
US-08-481-968A-11

Query Match      69.4%; Score 34; DB 2; Length 341;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      262 KLPDLCTE 269

RESULT 41
US-08-154-712B-11
; Sequence 11, Application US/08154712B
```



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/ Patent No. 6337209
/ GENERAL INFORMATION:
/ APPLICANT: Huber, Brian
/ APPLICANT: Richards, Cynthia
/ TITLE OF INVENTION: Molecular Constructs Containing a Carcinoembryonic Antigen Regu
/ TITLE OF INVENTION: Sequence
/ FILE REFERENCE: PB1087US3
/ CURRENT APPLICATION NUMBER: US/08/154,712B
/ CURRENT FILING DATE: 1993-11-19
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: Patentin version 3.0
/ SEQ ID NO 11
/ LENGTH: 341
/ TYPE: PRT
/ ORGANISM: Varicella zooster
US-08-154-712B-11

Query Match      69.4%; Score 34; DB 2; Length 341;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      262 KLPDLCTE 269

RESULT 42
US-09-947-925A-11
/ Sequence 11, Application US/09947925A
/ Patent No. 6699690
/ GENERAL INFORMATION:
/ APPLICANT: Huber, Brian
/ APPLICANT: Richards, Cynthia
/ TITLE OF INVENTION: Molecular Constructs Containing a Carcinoembryonic
/ TITLE OF INVENTION: Antigen Regulatory
/ TITLE OF INVENTION: Sequence
/ FILE REFERENCE: PB1087US3
/ CURRENT APPLICATION NUMBER: US/09/947,925A
/ CURRENT FILING DATE: 2001-09-06
/ PRIOR APPLICATION NUMBER: US/08/154,712
/ PRIOR FILING DATE: 1993-11-19
/ NUMBER OF SEQ ID NOS: 36
/ SOFTWARE: Patentin version 3.0
/ SEQ ID NO 11
/ LENGTH: 341
/ TYPE: PRT
/ ORGANISM: Varicella zooster
US-09-947-925A-11

Query Match      69.4%; Score 34; DB 2; Length 341;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      262 KLPDLCTE 269

RESULT 43
US-09-686-583B-12
/ Sequence 12, Application US/09686583B
/ Patent No. 6576750
/ GENERAL INFORMATION:
/ APPLICANT: Heeka Corporation
/ APPLICANT: Gaines, Patrick J.
/ APPLICANT: Wisniewski, Nancy
/ TITLE OF INVENTION: FLEA PERTTROPIN NUCLEIC ACID MOLECULES, PROTEINS AND USES THEREO
/ FILE REFERENCE: FC-6-C2
/ CURRENT APPLICATION NUMBER: US/09/686,583B
/ CURRENT FILING DATE: 2000-10-11
/ PRIOR APPLICATION NUMBER: 09/543,668
/ PRIOR FILING DATE: 2000-04-07
/ PRIOR APPLICATION NUMBER: 60/128,704
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/ PRIOR FILING DATE: 1999-04-09
/ NUMBER OF SEQ ID NOS: 68
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 12
/ LENGTH: 453
/ TYPE: PRT
/ ORGANISM: Ctenocephalides felis
US-09-686-583B-12

Query Match      69.4%; Score 34; DB 2; Length 453;
Best Local Similarity 55.6%; Pred. No. 2.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      399 ELPLDIDDEV 407

RESULT 44
US-09-585-174-6
/ Sequence 6, Application US/09585174
/ Patent No. 6586229
/ GENERAL INFORMATION:
/ APPLICANT: Ben-Bassat, Arie
/ APPLICANT: Cattermole, Monica
/ APPLICANT: Gatenby, Anthony A.
/ APPLICANT: Gibson, Katherine J.
/ APPLICANT: Ramos-Gonzalez, Isabel
/ APPLICANT: Ramos, Juan
/ APPLICANT: Sariakanti, Sima
/ TITLE OF INVENTION: Method for the Production of p-Hydroxybenzoate in Species of
/ TITLE OF INVENTION: Pseudomonas and Agrobacterium
/ FILE REFERENCE: BC1018 US NA
/ CURRENT APPLICATION NUMBER: US/09/585,174
/ CURRENT FILING DATE: 2000-06-01
/ NUMBER OF SEQ ID NOS: 112
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 6
/ LENGTH: 530
/ TYPE: PRT
/ ORGANISM: Pseudomonas mendocina KR-1
US-09-585-174-6

Query Match      69.4%; Score 34; DB 2; Length 530;
Best Local Similarity 85.7%; Pred. No. 2.9e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 PDLCTEL 9
Db      122 PDLCTAL 128

RESULT 45
US-09-438-185A-970
/ Sequence 970, Application US/09438185A
/ Patent No. 6822071
/ GENERAL INFORMATION:
/ APPLICANT: Stephens, Richard
/ APPLICANT: Mitchell, Wayne
/ APPLICANT: Kaiman, Sue
/ APPLICANT: Davis, Ronald
/ TITLE OF INVENTION: The Regents of the University of California
/ TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
/ FILE REFERENCE: 018941-000411US
/ CURRENT APPLICATION NUMBER: US/09/438,185A
/ CURRENT FILING DATE: 2002-03-13
/ PRIOR APPLICATION NUMBER: US 60/108,279
/ PRIOR FILING DATE: 1998-11-12
/ PRIOR APPLICATION NUMBER: US 60/128,606
/ PRIOR FILING DATE: 1999-04-08
/ NUMBER OF SEQ ID NOS: 1074
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 970
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LENGTH: 611  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
FEATURE:  
OTHER INFORMATION: CPN0968  
US-09-438-185A-970

Query Match 69.4%; Score 34; DB 2; Length 611;  
Best Local Similarity 75.0%; Pred. No. 3.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPDLCTEL 9  
DB 444 LPDLCTEL 451

RESULT 46  
US-09-513-999C-7763  
Sequence 7763, Application US/09513999C  
Patent No. 6783961  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, J.B.  
APPLICANT: Duclet, A.  
APPLICANT: Giordano, J.Y.  
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
Patent No. 6783961  
FILE REFERENCE: 59.US2.REG  
CURRENT APPLICATION NUMBER: US/09/513,999C  
CURRENT FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: US 60/122,487  
PRIOR FILING DATE: 1999-02-26  
NUMBER OF SEQ ID NOS: 36681  
SOFTWARE: Patent.pm  
SEQ ID NO 7763  
LENGTH: 53  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 28  
OTHER INFORMATION: Xaa=Cys or Gly  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 30  
OTHER INFORMATION: Xaa= \* or Glu  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: 48  
OTHER INFORMATION: Xaa=Cys or Gly or Arg or Ser  
US-09-513-999C-7763

Query Match 67.3%; Score 33; DB 2; Length 53;  
Best Local Similarity 83.3%; Pred. No. 38;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LPDLCT 7  
DB 19 LPDLCT 24

RESULT 47  
US-09-270-767-62327  
Sequence 62327, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 62327

LENGTH: 73  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-62327

Query Match 67.3%; Score 33; DB 2; Length 73;  
Best Local Similarity 85.7%; Pred. No. 54;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 PDLCTYL 9  
DB 61 PDLCTYL 67

RESULT 48  
US-08-609-049A-17  
Sequence 17, Application US/08609049A  
Patent No. 5948664  
GENERAL INFORMATION:  
APPLICANT: Williams, Lewis T.  
APPLICANT: Molz, Lisa  
APPLICANT: Chen, Yen-Wen  
TITLE OF INVENTION: NO. 5948664e1 PI 3-kinase Polypeptides  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/609,049A  
FILING DATE: 29-FEB-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dow, Karen B.  
REGISTRATION NUMBER: 29,684  
REFERENCE/DOCKET NUMBER: 2307K-063700US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 138 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-609-049A-17

Query Match 67.3%; Score 33; DB 1; Length 138;  
Best Local Similarity 66.7%; Pred. No. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KLPLCTEL 9  
DB 10 KLPLCTEL 18

RESULT 49  
US-09-170-996-17  
Sequence 17, Application US/09170996  
Patent No. 6291220  
GENERAL INFORMATION:  
APPLICANT: Williams, Lewis T.

APPLICANT: Molz, Lisa  
APPLICANT: Chen, Yen-Wen  
TITLE OF INVENTION: No. 6291220e1 PI 3-Kinase Polypeptides  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/170,996  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/609,049  
FILING DATE: 29-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Dow, Karen B.  
REGISTRATION NUMBER: 29,684  
REFERENCE/DOCKET NUMBER: 2307K-063700US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 138 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-09-170-996-17

Query Match 67.3%; Score 33; DB 2; Length 138;  
Best Local Similarity 66.7%; Pred. NO. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
QY 1 KLPDLCTEL 9  
Db 10 KLPDLCTSL 18

RESULT 50  
US-09-252-991A-31445  
Sequence 31445, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,150  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 31445  
LENGTH: 163  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-31445

Query Match 67.3%; Score 33; DB 2; Length 163;  
Best Local Similarity 71.4%; Pred. NO. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCT 7  
Db 36 RLPDLCT 42

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Job time: 23.9 secs

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

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(without alignments)  
66.793 Million cell updates/sec

Title: US-08-170-344-21  
Perfect score: 49  
Sequence: 1 KLPDLCTEL 9

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 1000 summaries

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4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
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and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	49	100.0	9	4	US-10-472-661-1
2	49	100.0	9	5	US-10-751-845-124
3	49	100.0	12	6	US-11-021-949-8
4	49	100.0	12	6	US-11-021-949-60
5	49	100.0	25	6	US-11-021-949-2
6	49	100.0	25	6	US-11-021-949-57
7	49	100.0	42	5	US-10-751-845-152
8	49	100.0	119	5	US-10-751-845-159
9	49	100.0	158	5	US-10-800-023-27
10	49	100.0	158	6	US-11-021-949-28
11	49	100.0	158	6	US-11-021-949-29
12	49	100.0	172	4	US-10-472-724-6
13	49	100.0	236	5	US-10-751-845-157
14	49	100.0	237	5	US-10-751-845-158
15	49	100.0	261	5	US-10-751-845-160
16	49	100.0	278	4	US-10-000-903-21
17	49	100.0	278	5	US-10-899-771-21
18	49	100.0	383	4	US-10-000-903-23
19	49	100.0	383	5	US-10-899-771-23
20	43	87.8	9	3	US-09-909-460-101
21	43	87.8	9	3	US-09-872-836-101
22	43	87.8	9	4	US-10-133-210-278
23	43	87.8	9	4	US-10-777-053-546
24	43	87.8	9	4	US-10-837-217-546
25	43	87.8	9	4	US-10-758-970-101
26	43	87.8	9	5	US-10-484-063-1
27	43	87.8	9	5	US-10-751-845-55

28	43	87.8	12	6	US-11-021-949-7	Sequence 7, Appl1
29	43	87.8	15	5	US-10-476-570-20	Sequence 20, Appl1
30	43	87.8	20	5	US-10-751-845-64	Sequence 64, Appl1
31	43	87.8	21	4	US-10-476-570-8	Sequence 8, Appl1
32	43	87.8	25	6	US-11-021-949-1	Sequence 1, Appl1
33	43	87.8	30	4	US-10-476-570-53	Sequence 53, Appl1
34	43	87.8	32	5	US-10-858-384-4	Sequence 4, Appl1
35	43	87.8	33	4	US-10-476-570-9	Sequence 9, Appl1
36	43	87.8	33	4	US-10-476-570-19	Sequence 19, Appl1
37	43	87.8	117	5	US-10-751-845-126	Sequence 126, App
38	43	87.8	151	4	US-10-177-390-6	Sequence 6, Appl1
39	43	87.8	151	5	US-10-484-063-20	Sequence 20, Appl1
40	43	87.8	151	5	US-10-484-063-27	Sequence 27, Appl1
41	43	87.8	158	5	US-10-858-384-2	Sequence 2, Appl1
42	43	87.8	158	5	US-10-367-057-16	Sequence 16, Appl1
43	43	87.8	158	6	US-11-021-949-13	Sequence 13, Appl1
44	43	87.8	158	6	US-11-021-949-30	Sequence 30, Appl1
45	43	87.8	158	6	US-11-021-949-361	Sequence 361, App
46	43	87.8	171	4	US-10-472-724-2	Sequence 2, Appl1
47	43	87.8	243	6	US-11-072-288-1	Sequence 1, Appl1
48	43	87.8	266	3	US-09-367-309A-1	Sequence 1, Appl1
49	43	87.8	273	4	US-10-000-903-4	Sequence 4, Appl1
50	43	87.8	273	5	US-10-899-771-4	Sequence 4, Appl1
51	43	87.8	292	4	US-10-000-903-10	Sequence 10, Appl1
52	43	87.8	292	5	US-10-899-771-10	Sequence 10, Appl1
53	43	87.8	371	4	US-10-000-903-6	Sequence 6, Appl1
54	43	87.8	371	5	US-10-899-771-6	Sequence 6, Appl1
55	43	87.8	390	4	US-10-000-903-14	Sequence 14, Appl1
56	43	87.8	390	5	US-10-899-771-14	Sequence 14, Appl1
57	43	87.8	536	4	US-10-367-095-10	Sequence 10, Appl1
58	43	87.8	536	4	US-10-368-046-10	Sequence 10, Appl1
59	43	87.8	536	4	US-10-367-367-10	Sequence 10, Appl1
60	43	87.8	536	5	US-10-918-337-10	Sequence 10, Appl1
61	40	81.6	486	4	US-10-312-773-277	Sequence 277, App
62	40	81.6	504	4	US-10-289-762-1036	Sequence 1036, Ap
63	38	77.6	157	4	US-10-424-599-280453	Sequence 280453,
64	38	77.6	159	4	US-10-424-599-232141	Sequence 232141,
65	38	77.6	518	6	US-11-097-143-16113	Sequence 16113, A
66	37	75.5	162	6	US-10-021-949-31	Sequence 31, Appl1
67	37	75.5	249	4	US-10-425-114-65862	Sequence 65862, A
68	37	75.5	250	4	US-10-425-114-66539	Sequence 66539, A
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123	34	69.4	1213	5	US-10-732-923-22589	Sequence 22589, A	196	32	65.3	236	3	US-09-801-944B-163	Sequence 163, App
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143	33	67.3	308	5	US-10-918-446-60	Sequence 60, Appl	216	32	65.3	339	4	US-10-087-192-1815	Sequence 1815, Ap
144	33	67.3	308	6	US-11-002-755-60	Sequence 60, Appl	217	32	65.3	340	4	US-10-389-566-1564	Sequence 1564, Ap
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161	33	67.3	627	5	US-10-849-106-6	Sequence 6, Appl1	234	32	65.3	397	4	US-10-022-390-54	Sequence 54, Appl
162	33	67.3	638	4	US-10-309-437-4	Sequence 4, Appl1	235	32	65.3	397	4	US-10-022-390-58	Sequence 58, Appl
163	33	67.3	638	5	US-10-849-106-4	Sequence 4, Appl1	236	32	65.3	397	4	US-10-022-390-62	Sequence 62, Appl
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404	32	65.3	397	4	US-10-022-249-246	Sequence 246, App	477	32	65.3	397	5	US-10-501-756-7	Sequence 7, App1
405	32	65.3	397	4	US-10-022-249-250	Sequence 250, App	478	32	65.3	433	3	US-09-863-776-48	Sequence 48, App1
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419	32	65.3	397	4	US-10-022-249-308	Sequence 308, App	492	32	65.3	621	4	US-10-097-100-3	Sequence 3, App1
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421	32	65.3	397	4	US-10-022-249-322	Sequence 322, App	494	32	65.3	621	4	US-10-022-390-1	Sequence 1, App1
422	32	65.3	397	4	US-10-022-249-326	Sequence 326, App	495	32	65.3	621	4	US-10-022-390-3	Sequence 3, App1
423	32	65.3	397	4	US-10-022-249-330	Sequence 330, App	496	32	65.3	621	4	US-10-022-390-5	Sequence 5, App1
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433	32	65.3	397	4	US-10-022-249-370	Sequence 370, App	506	32	65.3	621	4	US-10-022-390-25	Sequence 25, App1
434	32	65.3	397	4	US-10-022-249-376	Sequence 376, App	507	32	65.3	621	4	US-10-022-390-27	Sequence 27, App1
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438	32	65.3	397	4	US-10-022-249-392	Sequence 392, App	511	32	65.3	621	4	US-10-022-390-35	Sequence 35, App1
439	32	65.3	397	4	US-10-022-249-396	Sequence 396, App	512	32	65.3	621	4	US-10-022-390-37	Sequence 37, App1
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441	32	65.3	397	4	US-10-022-249-404	Sequence 404, App	514	32	65.3	621	4	US-10-022-390-41	Sequence 41, App1
442	32	65.3	397	4	US-10-022-249-408	Sequence 408, App	515	32	65.3	621	4	US-10-022-390-43	Sequence 43, App1
443	32	65.3	397	4	US-10-022-249-412	Sequence 412, App	516	32	65.3	621	4	US-10-022-390-45	Sequence 45, App1
444	32	65.3	397	4	US-10-022-249-416	Sequence 416, App	517	32	65.3	621	4	US-10-022-390-47	Sequence 47, App1
445	32	65.3	397	4	US-10-022-249-420	Sequence 420, App	518	32	65.3	621	4	US-10-022-390-49	Sequence 49, App1
446	32	65.3	397	4	US-10-022-249-428	Sequence 428, App	519	32	65.3	621	4	US-10-022-390-51	Sequence 51, App1
447	32	65.3	397	4	US-10-022-249-432	Sequence 432, App	520	32	65.3	621	4	US-10-022-390-53	Sequence 53, App1
448	32	65.3	397	4	US-10-022-249-436	Sequence 436, App	521	32	65.3	621	4	US-10-022-390-57	Sequence 57, App1
449	32	65.3	397	4	US-10-022-249-440	Sequence 440, App	522	32	65.3	621	4	US-10-022-390-61	Sequence 61, App1
450	32	65.3	397	4	US-10-022-249-444	Sequence 444, App	523	32	65.3	621	4	US-10-022-390-65	Sequence 65, App1
451	32	65.3	397	4	US-10-022-249-450	Sequence 450, App	524	32	65.3	621	4	US-10-022-390-69	Sequence 69, App1
452	32	65.3	397	4	US-10-022-249-454	Sequence 454, App	525	32	65.3	621	4	US-10-022-390-73	Sequence 73, App1
453	32	65.3	397	4	US-10-022-249-458	Sequence 458, App	526	32	65.3	621	4	US-10-022-390-77	Sequence 77, App1
454	32	65.3	397	4	US-10-022-249-462	Sequence 462, App	527	32	65.3	621	4	US-10-022-390-81	Sequence 81, App1
455	32	65.3	397	4	US-10-022-249-466	Sequence 466, App	528	32	65.3	621	4	US-10-022-390-85	Sequence 85, App1
456	32	65.3	397	4	US-10-022-249-472	Sequence 472, App	529	32	65.3	621	4	US-10-022-390-89	Sequence 89, App1
457	32	65.3	397	4	US-10-022-249-476	Sequence 476, App	530	32	65.3	621	4	US-10-022-390-93	Sequence 93, App1
458	32	65.3	397	4	US-10-022-249-480	Sequence 480, App	531	32	65.3	621	4	US-10-022-390-97	Sequence 97, App1
459	32	65.3	397	4	US-10-022-249-486	Sequence 486, App	532	32	65.3	621	4	US-10-022-390-101	Sequence 101, App
460	32	65.3	397	4	US-10-022-249-490	Sequence 490, App	533	32	65.3	621	4	US-10-022-390-105	Sequence 105, App
461	32	65.3	397	4	US-10-022-249-494	Sequence 494, App	534	32	65.3	621	4	US-10-022-390-109	Sequence 109, App
462	32	65.3	397	4	US-10-022-249-500	Sequence 500, App	535	32	65.3	621	4	US-10-022-390-113	Sequence 113, App
463	32	65.3	397	4	US-10-022-249-504	Sequence 504, App	536	32	65.3	621	4	US-10-022-390-117	Sequence 117, App
464	32	65.3	397	4	US-10-022-249-508	Sequence 508, App	537	32	65.3	621	4	US-10-022-390-121	Sequence 121, App
465	32	65.3	397	4	US-10-022-249-512	Sequence 512, App	538	32	65.3	621	4	US-10-022-390-125	Sequence 125, App



539	32	65.3	621	4	US-10-022-390-129	Sequence 129, App	612	32	65.3	621	4	US-10-022-390-413	Sequence 413, App
540	32	65.3	621	4	US-10-022-390-133	Sequence 133, App	613	32	65.3	621	4	US-10-022-390-419	Sequence 419, App
541	32	65.3	621	4	US-10-022-390-137	Sequence 137, App	614	32	65.3	621	4	US-10-022-390-425	Sequence 425, App
542	32	65.3	621	4	US-10-022-390-141	Sequence 141, App	615	32	65.3	621	4	US-10-022-390-431	Sequence 427, App
543	32	65.3	621	4	US-10-022-390-145	Sequence 145, App	616	32	65.3	621	4	US-10-022-390-437	Sequence 431, App
544	32	65.3	621	4	US-10-022-390-149	Sequence 149, App	617	32	65.3	621	4	US-10-022-390-443	Sequence 435, App
545	32	65.3	621	4	US-10-022-390-153	Sequence 153, App	618	32	65.3	621	4	US-10-022-390-449	Sequence 439, App
546	32	65.3	621	4	US-10-022-390-157	Sequence 157, App	619	32	65.3	621	4	US-10-022-390-455	Sequence 443, App
547	32	65.3	621	4	US-10-022-390-161	Sequence 161, App	620	32	65.3	621	4	US-10-022-390-461	Sequence 447, App
548	32	65.3	621	4	US-10-022-390-165	Sequence 165, App	621	32	65.3	621	4	US-10-022-390-467	Sequence 449, App
549	32	65.3	621	4	US-10-022-390-169	Sequence 169, App	622	32	65.3	621	4	US-10-022-390-473	Sequence 453, App
550	32	65.3	621	4	US-10-022-390-173	Sequence 173, App	623	32	65.3	621	4	US-10-022-390-479	Sequence 457, App
551	32	65.3	621	4	US-10-022-390-177	Sequence 177, App	624	32	65.3	621	4	US-10-022-390-485	Sequence 461, App
552	32	65.3	621	4	US-10-022-390-181	Sequence 181, App	625	32	65.3	621	4	US-10-022-390-491	Sequence 465, App
553	32	65.3	621	4	US-10-022-390-185	Sequence 185, App	626	32	65.3	621	4	US-10-022-390-497	Sequence 469, App
554	32	65.3	621	4	US-10-022-390-189	Sequence 189, App	627	32	65.3	621	4	US-10-022-390-503	Sequence 475, App
555	32	65.3	621	4	US-10-022-390-193	Sequence 193, App	628	32	65.3	621	4	US-10-022-390-509	Sequence 479, App
556	32	65.3	621	4	US-10-022-390-197	Sequence 197, App	629	32	65.3	621	4	US-10-022-390-515	Sequence 483, App
557	32	65.3	621	4	US-10-022-390-201	Sequence 201, App	630	32	65.3	621	4	US-10-022-390-521	Sequence 485, App
558	32	65.3	621	4	US-10-022-390-205	Sequence 205, App	631	32	65.3	621	4	US-10-022-390-527	Sequence 489, App
559	32	65.3	621	4	US-10-022-390-209	Sequence 209, App	632	32	65.3	621	4	US-10-022-390-533	Sequence 493, App
560	32	65.3	621	4	US-10-022-390-213	Sequence 213, App	633	32	65.3	621	4	US-10-022-390-539	Sequence 497, App
561	32	65.3	621	4	US-10-022-390-217	Sequence 217, App	634	32	65.3	621	4	US-10-022-390-545	Sequence 499, App
562	32	65.3	621	4	US-10-022-390-221	Sequence 221, App	635	32	65.3	621	4	US-10-022-390-551	Sequence 503, App
563	32	65.3	621	4	US-10-022-390-225	Sequence 225, App	636	32	65.3	621	4	US-10-022-390-557	Sequence 507, App
564	32	65.3	621	4	US-10-022-390-229	Sequence 229, App	637	32	65.3	621	4	US-10-022-390-563	Sequence 511, App
565	32	65.3	621	4	US-10-022-390-233	Sequence 233, App	638	32	65.3	621	4	US-10-022-390-569	Sequence 515, App
566	32	65.3	621	4	US-10-022-390-237	Sequence 237, App	639	32	65.3	621	4	US-10-022-390-575	Sequence 519, App
567	32	65.3	621	4	US-10-022-390-241	Sequence 241, App	640	32	65.3	621	4	US-10-022-390-581	Sequence 523, App
568	32	65.3	621	4	US-10-022-390-245	Sequence 245, App	641	32	65.3	621	4	US-10-022-390-587	Sequence 527, App
569	32	65.3	621	4	US-10-022-390-249	Sequence 249, App	642	32	65.3	621	4	US-10-022-390-593	Sequence 529, App
570	32	65.3	621	4	US-10-022-390-253	Sequence 253, App	643	32	65.3	621	4	US-10-022-390-599	Sequence 533, App
571	32	65.3	621	4	US-10-022-390-257	Sequence 257, App	644	32	65.3	621	4	US-10-022-390-605	Sequence 537, App
572	32	65.3	621	4	US-10-022-390-261	Sequence 261, App	645	32	65.3	621	4	US-10-022-390-611	Sequence 541, App
573	32	65.3	621	4	US-10-022-390-265	Sequence 265, App	646	32	65.3	621	4	US-10-022-390-617	Sequence 545, App
574	32	65.3	621	4	US-10-022-390-269	Sequence 269, App	647	32	65.3	621	4	US-10-022-390-623	Sequence 549, App
575	32	65.3	621	4	US-10-022-390-273	Sequence 273, App	648	32	65.3	621	4	US-10-022-390-629	Sequence 553, App
576	32	65.3	621	4	US-10-022-390-277	Sequence 277, App	649	32	65.3	621	4	US-10-022-390-635	Sequence 557, App
577	32	65.3	621	4	US-10-022-390-281	Sequence 281, App	650	32	65.3	621	4	US-10-022-390-641	Sequence 561, App
578	32	65.3	621	4	US-10-022-390-285	Sequence 285, App	651	32	65.3	621	4	US-10-022-390-647	Sequence 565, App
579	32	65.3	621	4	US-10-022-390-289	Sequence 289, App	652	32	65.3	621	4	US-10-022-390-653	Sequence 569, App
580	32	65.3	621	4	US-10-022-390-293	Sequence 293, App	653	32	65.3	621	4	US-10-022-390-659	Sequence 573, App
581	32	65.3	621	4	US-10-022-390-297	Sequence 297, App	654	32	65.3	621	4	US-10-022-390-665	Sequence 577, App
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583	32	65.3	621	4	US-10-022-390-305	Sequence 305, App	656	32	65.3	621	4	US-10-022-390-677	Sequence 585, App
584	32	65.3	621	4	US-10-022-390-309	Sequence 309, App	657	32	65.3	621	4	US-10-022-390-683	Sequence 589, App
585	32	65.3	621	4	US-10-022-390-315	Sequence 315, App	658	32	65.3	621	4	US-10-022-390-689	Sequence 593, App
586	32	65.3	621	4	US-10-022-390-321	Sequence 321, App	659	32	65.3	621	4	US-10-022-390-695	Sequence 597, App
587	32	65.3	621	4	US-10-022-390-325	Sequence 325, App	660	32	65.3	621	4	US-10-022-390-701	Sequence 601, App
588	32	65.3	621	4	US-10-022-390-329	Sequence 329, App	661	32	65.3	621	4	US-10-022-390-707	Sequence 605, App
589	32	65.3	621	4	US-10-022-390-333	Sequence 333, App	662	32	65.3	621	4	US-10-022-390-713	Sequence 609, App
590	32	65.3	621	4	US-10-022-390-337	Sequence 337, App	663	32	65.3	621	4	US-10-022-390-719	Sequence 613, App
591	32	65.3	621	4	US-10-022-390-341	Sequence 341, App	664	32	65.3	621	4	US-10-022-390-725	Sequence 617, App
592	32	65.3	621	4	US-10-022-390-345	Sequence 345, App	665	32	65.3	621	4	US-10-022-390-731	Sequence 621, App
593	32	65.3	621	4	US-10-022-390-349	Sequence 349, App	666	32	65.3	621	4	US-10-022-390-737	Sequence 625, App
594	32	65.3	621	4	US-10-022-390-353	Sequence 353, App	667	32	65.3	621	4	US-10-022-390-743	Sequence 629, App
595	32	65.3	621	4	US-10-022-390-357	Sequence 357, App	668	32	65.3	621	4	US-10-022-390-749	Sequence 633, App
596	32	65.3	621	4	US-10-022-390-361	Sequence 361, App	669	32	65.3	621	4	US-10-022-390-755	Sequence 637, App
597	32	65.3	621	4	US-10-022-390-365	Sequence 365, App	670	32	65.3	621	4	US-10-022-390-761	Sequence 641, App
598	32	65.3	621	4	US-10-022-390-369	Sequence 369, App	671	32	65.3	621	4	US-10-022-390-767	Sequence 645, App
599	32	65.3	621	4	US-10-022-390-373	Sequence 373, App	672	32	65.3	621	4	US-10-022-390-773	Sequence 649, App
600	32	65.3	621	4	US-10-022-390-377	Sequence 377, App	673	32	65.3	621	4	US-10-022-390-779	Sequence 653, App
601	32	65.3	621	4	US-10-022-390-381	Sequence 381, App	674	32	65.3	621	4	US-10-022-390-785	Sequence 657, App
602	32	65.3	621	4	US-10-022-390-385	Sequence 385, App	675	32	65.3	621	4	US-10-022-390-791	Sequence 661, App
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607	32	65.3	621	4	US-10-022-390-405	Sequence 405, App	680	32	65.3	621	4	US-10-022-390-821	Sequence 681, App
608	32	65.3	621	4	US-10-022-390-409	Sequence 409, App	681	32	65.3	621	4	US-10-022-390-827	Sequence 685, App
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611	32	65.3	621	4	US-10-022-390-421	Sequence 421, App	684	32	65.3	621	4	US-10-022-390-845	Sequence 697, App

685	32	65.3	621	4	US-10-022-249-81	Sequence 81, App1	758	32	65.3	621	4	US-10-022-249-373	Sequence 373, App
686	32	65.3	621	4	US-10-022-249-85	Sequence 85, App1	759	32	65.3	621	4	US-10-022-249-375	Sequence 375, App
687	32	65.3	621	4	US-10-022-249-89	Sequence 89, App1	760	32	65.3	621	4	US-10-022-249-379	Sequence 379, App
688	32	65.3	621	4	US-10-022-249-93	Sequence 93, App1	761	32	65.3	621	4	US-10-022-249-383	Sequence 383, App
689	32	65.3	621	4	US-10-022-249-97	Sequence 97, App1	762	32	65.3	621	4	US-10-022-249-387	Sequence 387, App
690	32	65.3	621	4	US-10-022-249-101	Sequence 101, App	763	32	65.3	621	4	US-10-022-249-391	Sequence 391, App
691	32	65.3	621	4	US-10-022-249-105	Sequence 105, App	764	32	65.3	621	4	US-10-022-249-395	Sequence 395, App
692	32	65.3	621	4	US-10-022-249-109	Sequence 109, App	765	32	65.3	621	4	US-10-022-249-399	Sequence 399, App
693	32	65.3	621	4	US-10-022-249-113	Sequence 113, App	766	32	65.3	621	4	US-10-022-249-403	Sequence 403, App
694	32	65.3	621	4	US-10-022-249-117	Sequence 117, App	767	32	65.3	621	4	US-10-022-249-407	Sequence 407, App
695	32	65.3	621	4	US-10-022-249-121	Sequence 121, App	768	32	65.3	621	4	US-10-022-249-411	Sequence 411, App
696	32	65.3	621	4	US-10-022-249-125	Sequence 125, App	769	32	65.3	621	4	US-10-022-249-415	Sequence 415, App
697	32	65.3	621	4	US-10-022-249-129	Sequence 129, App	770	32	65.3	621	4	US-10-022-249-419	Sequence 419, App
698	32	65.3	621	4	US-10-022-249-133	Sequence 133, App	771	32	65.3	621	4	US-10-022-249-423	Sequence 423, App
699	32	65.3	621	4	US-10-022-249-137	Sequence 137, App	772	32	65.3	621	4	US-10-022-249-425	Sequence 425, App
700	32	65.3	621	4	US-10-022-249-141	Sequence 141, App	773	32	65.3	621	4	US-10-022-249-427	Sequence 427, App
701	32	65.3	621	4	US-10-022-249-145	Sequence 145, App	774	32	65.3	621	4	US-10-022-249-431	Sequence 431, App
702	32	65.3	621	4	US-10-022-249-149	Sequence 149, App	775	32	65.3	621	4	US-10-022-249-435	Sequence 435, App
703	32	65.3	621	4	US-10-022-249-153	Sequence 153, App	776	32	65.3	621	4	US-10-022-249-439	Sequence 439, App
704	32	65.3	621	4	US-10-022-249-157	Sequence 157, App	777	32	65.3	621	4	US-10-022-249-443	Sequence 443, App
705	32	65.3	621	4	US-10-022-249-161	Sequence 161, App	778	32	65.3	621	4	US-10-022-249-447	Sequence 447, App
706	32	65.3	621	4	US-10-022-249-165	Sequence 165, App	779	32	65.3	621	4	US-10-022-249-449	Sequence 449, App
707	32	65.3	621	4	US-10-022-249-169	Sequence 169, App	780	32	65.3	621	4	US-10-022-249-453	Sequence 453, App
708	32	65.3	621	4	US-10-022-249-173	Sequence 173, App	781	32	65.3	621	4	US-10-022-249-457	Sequence 457, App
709	32	65.3	621	4	US-10-022-249-177	Sequence 177, App	782	32	65.3	621	4	US-10-022-249-461	Sequence 461, App
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711	32	65.3	621	4	US-10-022-249-185	Sequence 185, App	784	32	65.3	621	4	US-10-022-249-469	Sequence 469, App
712	32	65.3	621	4	US-10-022-249-189	Sequence 189, App	785	32	65.3	621	4	US-10-022-249-471	Sequence 471, App
713	32	65.3	621	4	US-10-022-249-193	Sequence 193, App	786	32	65.3	621	4	US-10-022-249-475	Sequence 475, App
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715	32	65.3	621	4	US-10-022-249-201	Sequence 201, App	788	32	65.3	621	4	US-10-022-249-483	Sequence 483, App
716	32	65.3	621	4	US-10-022-249-205	Sequence 205, App	789	32	65.3	621	4	US-10-022-249-485	Sequence 485, App
717	32	65.3	621	4	US-10-022-249-209	Sequence 209, App	790	32	65.3	621	4	US-10-022-249-489	Sequence 489, App
718	32	65.3	621	4	US-10-022-249-213	Sequence 213, App	791	32	65.3	621	4	US-10-022-249-493	Sequence 493, App
719	32	65.3	621	4	US-10-022-249-217	Sequence 217, App	792	32	65.3	621	4	US-10-022-249-497	Sequence 497, App
720	32	65.3	621	4	US-10-022-249-221	Sequence 221, App	793	32	65.3	621	4	US-10-022-249-499	Sequence 499, App
721	32	65.3	621	4	US-10-022-249-225	Sequence 225, App	794	32	65.3	621	4	US-10-022-249-503	Sequence 503, App
722	32	65.3	621	4	US-10-022-249-229	Sequence 229, App	795	32	65.3	621	4	US-10-022-249-507	Sequence 507, App
723	32	65.3	621	4	US-10-022-249-233	Sequence 233, App	796	32	65.3	621	4	US-10-022-249-511	Sequence 511, App
724	32	65.3	621	4	US-10-022-249-237	Sequence 237, App	797	32	65.3	621	4	US-10-022-249-515	Sequence 515, App
725	32	65.3	621	4	US-10-022-249-241	Sequence 241, App	798	32	65.3	621	4	US-10-022-249-519	Sequence 519, App
726	32	65.3	621	4	US-10-022-249-245	Sequence 245, App	799	32	65.3	621	4	US-10-022-249-523	Sequence 523, App
727	32	65.3	621	4	US-10-022-249-249	Sequence 249, App	800	32	65.3	621	4	US-10-022-249-527	Sequence 527, App
728	32	65.3	621	4	US-10-022-249-253	Sequence 253, App	801	32	65.3	621	4	US-10-022-249-531	Sequence 529, App
729	32	65.3	621	4	US-10-022-249-257	Sequence 257, App	802	32	65.3	621	4	US-10-022-249-535	Sequence 533, App
730	32	65.3	621	4	US-10-022-249-261	Sequence 261, App	803	32	65.3	621	4	US-10-022-249-539	Sequence 537, App
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739	32	65.3	621	4	US-10-022-249-293	Sequence 293, App	812	32	65.3	622	3	US-09-792-360-1	Sequence 1,
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## ALIGNMENTS

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RESULT 1
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; Sequence 1, Application US/10472661
; Publication No. US20040106551A1
; GENERAL INFORMATION:
; APPLICANT: Kiehl, Samir N.
; APPLICANT: Berzofsky, Jay A.
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS IMMUNOREACTIVE
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 14014.040602
; CURRENT APPLICATION NUMBER: US/10/472,661
; CURRENT FILING DATE: 2003-09-22
; PRIOR APPLICATION NUMBER: PCT/US02/09261
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 60/278,520
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 9
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; SEQ ID NO 1
; LENGTH: 9
; TYPE: PRT
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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence; note =
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; Sequence 124, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
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; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-06-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
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; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
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; ORGANISM: human papilloma virus (HPV)
US-11-021-949-8

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; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
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; PRIOR FILING DATE: 2003-12-23
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```
RESULT 5
US-11-021-949-2
; Sequence 2, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 25
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-2
```

```
Query Match          100.0%; Score 49; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 10 KLPDLCTEL 18
```

```
RESULT 6
US-11-021-949-57
; Sequence 57, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
```

```
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 25
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-57
```

```
Query Match          100.0%; Score 49; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 10 KLPDLCTEL 18
```

```
RESULT 7
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152
```

```
Query Match          100.0%; Score 49; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 5 KLPDLCTEL 13
```

```
RESULT 8
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
```

```
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
```

```
Query Match          100.0%; Score 49; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 5 KLPDLCTEL 13
```

```
RESULT 9
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US2004025868A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; PRIOR FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27
```

```
Query Match          100.0%; Score 49; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 13 KLPDLCTEL 21
```

```
RESULT 10
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/552,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```
Query Match          100.0%; Score 49; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 13 KLPDLCTEL 21
```

```
RESULT 11
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-29
```

```
Query Match          100.0%; Score 49; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KLPDLCTEL 9
Db 13 KLPDLCTEL 21
```

```
RESULT 12
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
```

US-10-472-724-6

Query Match 100.0%; Score 49; DB 4; Length 172;

Best Local Similarity 100.0%; Pred. No. 0.47;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 19 KLPDLCTEL 27

RESULT 13

US-10-751-845-157

Sequence 157, Application US/10751845

Publication No. US20050100928A1

GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne

APPLICANT: Urban, Robert G.

APPLICANT: Chiciz, Roman M.

TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845

PRIOR FILING DATE: 2004-01-05

PRIOR APPLICATION NUMBER: US/09/664,225

PRIOR FILING DATE: 2000-08-18

PRIOR APPLICATION NUMBER: US 60/169,846

PRIOR FILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: US 60/154,665

PRIOR FILING DATE: 1999-09-16

NUMBER OF SEQ ID NOS: 163

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 157

LENGTH: 236

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Artificial fusion sequence

US-10-751-845-157

Query Match 100.0%; Score 49; DB 5; Length 236;  
Best Local Similarity 100.0%; Pred. No. 0.65;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;Qy 1 KLPDLCTEL 9  
Db 122 KLPDLCTEL 130

RESULT 14

US-10-751-845-158

Sequence 158, Application US/10751845

Publication No. US20050100928A1

GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne

APPLICANT: Urban, Robert G.

APPLICANT: Chiciz, Roman M.

TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845

PRIOR FILING DATE: 2004-01-05

PRIOR APPLICATION NUMBER: US/09/664,225

PRIOR FILING DATE: 2000-08-18

PRIOR APPLICATION NUMBER: US 60/169,846

PRIOR FILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: US 60/154,665

PRIOR FILING DATE: 1999-09-16

NUMBER OF SEQ ID NOS: 163

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 158

LENGTH: 237

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Artificial fusion sequence

US-10-751-845-158

Query Match 100.0%; Score 49; DB 5; Length 237;

Best Local Similarity 100.0%; Pred. No. 0.65;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 123 KLPDLCTEL 131

RESULT 15

US-10-751-845-160

Sequence 160, Application US/10751845

Publication No. US20050100928A1

GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne

APPLICANT: Urban, Robert G.

APPLICANT: Chiciz, Roman M.

TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845

PRIOR FILING DATE: 2004-01-05

PRIOR APPLICATION NUMBER: US/09/664,225

PRIOR FILING DATE: 2000-08-18

PRIOR APPLICATION NUMBER: US 60/169,846

PRIOR FILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: US 60/154,665

PRIOR FILING DATE: 1999-09-16

NUMBER OF SEQ ID NOS: 163

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 160

LENGTH: 261

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Artificial fusion sequence

US-10-751-845-160

Query Match 100.0%; Score 49; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 0.72;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;Qy 1 KLPDLCTEL 9  
Db 147 KLPDLCTEL 155

RESULT 16

US-10-000-903-21

Sequence 21, Application US/10000903

Publication No. US20020182221A1

GENERAL INFORMATION:

APPLICANT: Bruck, Claudine

APPLICANT: Cabazon Silva, Teresa

APPLICANT: Delisse, Anne-Marie Eva Fernandez

APPLICANT: Gerard, Catherine Marie Chistaine

APPLICANT: Lombardo-Bencheikh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/10/000,903

PRIOR FILING DATE: 2001-10-01

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 21

LENGTH: 276

TYPE: PRT

ORGANISM: Homo sapien

FEATURE:

US-10-000-903-21

Query Match 100.0%; Score 49; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.77;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 17

US-10-899-771-21  
; Sequence 21, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771  
; CURRENT FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 21  
; LENGTH: 278  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and E6 from Human papilloma virus type  
; OTHER INFORMATION: 18)  
US-10-899-771-21

Query Match 100.0%; Score 49; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.77;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 18

US-10-000-903-23  
; Sequence 23, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabazon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Benchikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 23  
; LENGTH: 383  
; TYPE: PRT

; ORGANISM: Homo sapien

Query Match 100.0%; Score 49; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 19

US-10-899-771-23  
; Sequence 23, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771  
; CURRENT FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 23  
; LENGTH: 383  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and B6E7 fusion from Human papilloma  
; OTHER INFORMATION: virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 49; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
|||||  
DB 124 KLPDLCTEL 132

RESULT 20

US-09-909-460-101  
; Sequence 101, Application US/09909460  
; Publication No. US20020182258A1  
; GENERAL INFORMATION:  
; APPLICANT: Lunsford, Lynn B.  
; APPLICANT: Putnam, David  
; APPLICANT: Hedley, Mary Lynn  
; TITLE OF INVENTION: MICROARTICLES FOR DELIVERY OF NUCLEIC  
; TITLE OF INVENTION: ACID  
; FILE REFERENCE: 08191/014001  
; CURRENT APPLICATION NUMBER: US/09/909,460  
; CURRENT FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
; NUMBER OF SEQ ID NOS: 114  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 101  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Hepatitis B virus  
US-09-909-460-101



Query Match 87.8%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
||| |||||  
Db 1 KLPDLCTEL 9

RESULT 21  
US-09-872-836-101  
; Sequence 101, Application US/09872836  
; Publication No. US20040142475A1  
; GENERAL INFORMATION:  
; APPLICANT: Barman, Shikha P.  
; APPLICANT: McKeever, Una  
; APPLICANT: Hedley, Mary Lynne  
; TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS  
; FILE REFERENCE: 08191-018001  
; CURRENT APPLICATION NUMBER: US/09/872,836  
; PRIOR FILING DATE: 2001-06-01  
; PRIOR APPLICATION NUMBER: US 60/208,830  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ ID NOS: 120  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 101  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-872-836-101

Query Match 87.8%; Score 43; DB 3; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
||| |||||  
Db 1 KLPDLCTEL 9

RESULT 22  
US-10-133-210-278  
; Sequence 278, Application US/10133210  
; Publication No. US20030103964A1  
; GENERAL INFORMATION:  
; APPLICANT: Delisi, Charles  
; APPLICANT: Berzofsky, Jay  
; APPLICANT: Guilkota, Kamalakur  
; APPLICANT: Vaccaro, Dennis  
; APPLICANT: Wang, Zhiying  
; APPLICANT: Zhang, Chao  
; TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND  
; FILE REFERENCE: BU-035AX  
; CURRENT APPLICATION NUMBER: US/10/133,210  
; PRIOR FILING DATE: 2002-04-26  
; NUMBER OF SEQ ID NOS: 281  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 278  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-133-210-278

Query Match 87.8%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
||| |||||

Db 1 KLPDLCTEL 9

RESULT 23  
US-10-777-053-546  
; Sequence 546, Application US/10777053  
; Publication No. US20040132088A1  
; GENERAL INFORMATION:  
; APPLICANT: Simard, John J. L.  
; APPLICANT: Diamond, David C.  
; APPLICANT: Qiu, Zhiyong  
; APPLICANT: Lei, Xiang-Dong  
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF  
; TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN  
; FILE REFERENCE: MANK.022C1  
; CURRENT APPLICATION NUMBER: US/10/777,053  
; PRIOR FILING DATE: 2004-02-10  
; PRIOR APPLICATION NUMBER: 10/292,413  
; PRIOR FILING DATE: 2002-11-07  
; PRIOR APPLICATION NUMBER: 60/336,968  
; PRIOR FILING DATE: 2001-11-07  
; NUMBER OF SEQ ID NOS: 979  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 546  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-10-777-053-546

Query Match 87.8%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
||| |||||  
Db 1 KLPDLCTEL 9

RESULT 24  
US-10-837-217-546  
; Sequence 546, Application US/10837217  
; Publication No. US20040203051A1  
; GENERAL INFORMATION:  
; APPLICANT: Simard, John J. L.  
; APPLICANT: Diamond, David C.  
; APPLICANT: Qiu, Zhiyong  
; APPLICANT: Lei, Xiang-Dong  
; TITLE OF INVENTION: EXPRESSION VECTORS ENCODING EPITOPES OF  
; TARGET-ASSOCIATED ANTIGENS AND METHODS FOR THEIR DESIGN  
; FILE REFERENCE: MANK.022C2  
; CURRENT APPLICATION NUMBER: US/10/837,217  
; PRIOR FILING DATE: 2004-04-30  
; PRIOR APPLICATION NUMBER: 10/292,413  
; PRIOR FILING DATE: 2002-11-07  
; PRIOR APPLICATION NUMBER: 60/336,968  
; PRIOR FILING DATE: 2001-11-07  
; NUMBER OF SEQ ID NOS: 979  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 546  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-10-837-217-546

Query Match 87.8%; Score 43; DB 4; Length 9;  
Best Local Similarity 88.9%; Pred. No. 1.7e+06;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
||| |||||  
Db 1 KLPDLCTEL 9

```
RESULT 25
US-10-758-970-101
; Sequence 101, Application US/10758970
; Publication No. US20050037086A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Heu, Yung-Yueh
; APPLICANT: Tyo, Michael
; TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
; FILE REFERENCE: 08191-012001
; CURRENT APPLICATION NUMBER: US/10/758,970
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: US/09/715,708A
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 60/166,516
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 101
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-758-970-101

Query Match      87.8%; Score 43; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDICTEL 9
Db      1 KLPOLCTEL 9

RESULT 26
US-10-484-063-1
; Sequence 1, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-1

Query Match      87.8%; Score 43; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDICTEL 9
Db      1 KLPOLCTEL 9

RESULT 27
US-10-751-845-55
; Sequence 55, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
```

```
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicx, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-55

Query Match      87.8%; Score 43; DB 5; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDICTEL 9
Db      1 KLPOLCTEL 9

RESULT 28
US-11-021-949-7
; Sequence 7, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LV, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BEIMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 12
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-7

Query Match      87.8%; Score 43; DB 6; Length 12;
Best Local Similarity 88.9%; Pred. No. 0.42;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDICTEL 9
Db      4 KLPOLCTEL 12

RESULT 29
US-10-476-570-20
; Sequence 20, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVEBLE-MORATILLE, Sandra
```

```
APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 17-31
US-10-476-570-20
```

```
Query Match      87.8%; Score 43; DB 4; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.52;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 2 KLPDLCTEL 10
```

```
RESULT 30
US-10-751-845-64
; Sequence 64, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-64
```

```
Query Match      87.8%; Score 43; DB 5; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.7;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 12 KLPDLCTEL 20
```

```
RESULT 31
US-10-476-570-8
; Sequence 8, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
```

```
APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-34
US-10-476-570-8
```

```
Query Match      87.8%; Score 43; DB 4; Length 21;
Best Local Similarity 88.9%; Pred. No. 0.73;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 5 KLPDLCTEL 13
```

```
RESULT 32
US-11-021-949-1
; Sequence 1, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARIENTO, CHAMORO SONOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 25
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-1
```

```
Query Match      87.8%; Score 43; DB 6; Length 25;
Best Local Similarity 88.9%; Pred. No. 0.87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
    ||| |||
Db 10 KLPDLCTEL 18
```

```
RESULT 33
US-10-476-570-53
; Sequence 53, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
```

```

; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 53
; LENGTH: 30
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 15-44
US-10-476-570-53
```

```
Query Match      87.8%; Score 43; DB 4; Length 30;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLC TEL 9
         ||| |||||
Db      4 KLPQLC TEL 12
```

```
RESULT 34
US-10-858-384-4
; Sequence 4, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPIN, JEANNINE
; APPLICANT: BOURGAULT-VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; PRIOR FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 4
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
; OTHER INFORMATION: for E6 of HPV
US-10-858-384-4
```

```
Query Match      87.8%; Score 43; DB 5; Length 30;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLC TEL 9
         ||| |||||
Db      4 KLPQLC TEL 12
```

```
RESULT 35
US-10-476-570-9
; Sequence 9, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
```

```

; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 32
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-45
US-10-476-570-9
```

```
Query Match      87.8%; Score 43; DB 4; Length 32;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLC TEL 9
         ||| |||||
Db      5 KLPQLC TEL 13
```

```
RESULT 36
US-10-476-570-19
; Sequence 19, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 33
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-46
US-10-476-570-19
```

```
Query Match      87.8%; Score 43; DB 4; Length 33;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KLPDLC TEL 9
         ||| |||||
Db      5 KLPQLC TEL 13
```

```
RESULT 37
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match      87.8%; Score 43; DB 5; Length 117;
Best Local Similarity 88.9%; Pred. No. 4.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 38
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerpse Innovatiecentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match      87.8%; Score 43; DB 4; Length 151;
Best Local Similarity 88.9%; Pred. No. 5.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 39
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLELMO
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
```

```
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match      87.8%; Score 43; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 5.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 40
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLELMO
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match      87.8%; Score 43; DB 5; Length 151;
Best Local Similarity 88.9%; Pred. No. 5.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KLPDLCTEL 9
      ||| ||| |||
Db      11 KLPDLCTEL 19

RESULT 41
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIS, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
```

```
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match      87.8%; Score 43; DB 5; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
DB      18 KLPOLCTEL 26

RESULT 42
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match      87.8%; Score 43; DB 5; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
DB      18 KLPOLCTEL 26

RESULT 43
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; ORGANISM: human papilloma virus (HPV)
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match      87.8%; Score 43; DB 6; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
DB      18 KLPOLCTEL 26

RESULT 44
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

Query Match      87.8%; Score 43; DB 6; Length 158;
Best Local Similarity 88.9%; Pred. No. 5.6;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
DB      13 KLPDLCTEL 21

RESULT 45
US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
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US-11-021-949-361

Query Match 87.8%; Score 43; DB 6; Length 158;  
Best Local Similarity 88.9%; Pred. No. 5.6;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 13 KLPDLCTAL 21

RESULT 46

US-10-472-724-2  
; Sequence 2, Application US/10472724  
; Publication No. US20040171806A1  
; GENERAL INFORMATION:  
; APPLICANT: Cid-Atregui, Angel  
; APPLICANT: Zur Hausen, Harald  
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination  
; FILE REFERENCE: 4121-154  
; CURRENT APPLICATION NUMBER: US/10/472,724  
; PRIOR FILING DATE: 2003-09-17  
; PRIOR APPLICATION NUMBER: PCT/EP02/03271  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: EP 01107271.7  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 2  
; LENGTH: 171  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Construct  
US-10-472-724-2

Query Match 87.8%; Score 43; DB 4; Length 171;  
Best Local Similarity 88.9%; Pred. No. 6.1;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 23 KLPDLCTEL 31

RESULT 47

US-11-072-288-1  
; Sequence 1, Application US/11072288  
; Publication No. US20050159386A1  
; GENERAL INFORMATION:  
; APPLICANT: Kieny, Marie-Paule  
; APPLICANT: Bizio, Jean-Marie  
; APPLICANT: Bizio, Nadine  
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC  
; FILE REFERENCE: 01753-122  
; CURRENT APPLICATION NUMBER: US/11/072,288  
; PRIOR FILING DATE: 2005-03-07  
; PRIOR APPLICATION NUMBER: US/09/462,993  
; PRIOR FILING DATE: 2000-04-17  
; PRIOR APPLICATION NUMBER: PCT/FR98/01576  
; PRIOR FILING DATE: 1998-07-17  
; PRIOR APPLICATION NUMBER: FR 97/09152  
; PRIOR FILING DATE: 1997-07-18  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: Patentin Ver. 2.2  
; SEQ ID NO 1  
; LENGTH: 243  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Derived from  
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein

; OTHER INFORMATION: fused F protein signals, clone E6\*TMF.  
US-11-072-288-1

Query Match 87.8%; Score 43; DB 6; Length 243;  
Best Local Similarity 88.9%; Pred. No. 8.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 46 KLPDLCTEL 54

RESULT 48

US-09-367-309A-1  
; Sequence 1, Application US/09367309A  
; Publication No. US20020081329A1  
; GENERAL INFORMATION:  
; APPLICANT: MACFARLAN, RODERICK I.  
; APPLICANT: MALLIAROS, JIM  
; TITLE OF INVENTION: CHEATING IMMUNOSTIMULATING COMPLEXES  
; FILE REFERENCE: 017227/0149  
; CURRENT APPLICATION NUMBER: US/09/367,309A  
; PRIOR FILING DATE: 1999-08-11  
; PRIOR APPLICATION NUMBER: PCT/AU98/00080  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: AU PO 5178  
; PRIOR FILING DATE: 1997-02-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-367-309A-1

Query Match 87.8%; Score 43; DB 3; Length 266;  
Best Local Similarity 88.9%; Pred. No. 9.5;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9  
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Db 18 KLPDLCTEL 26

RESULT 49

US-10-000-903-4  
; Sequence 4, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Gabizon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Bernande  
; APPLICANT: Gerard, Catherine Marie Christaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; PRIOR FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 273  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-000-903-4

Query Match 87.8%; Score 43; DB 4; Length 273;  
Best Local Similarity 88.9%; Pred. No. 9.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
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Db 124 KLPDLCTEL 132

RESULT 50  
US-10-899-771-4  
; Sequence 4, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771  
; PRIOR FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 4  
; LENGTH: 273  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type  
; OTHER INFORMATION: 16)  
US-10-899-771-4

Query Match 87.8%; Score 43; DB 5; Length 273;  
Best Local Similarity 88.9%; Pred. No. 9.7;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
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Db 124 KLPDLCTEL 132

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Job time : 58.3 secs



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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds  
(Without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-21  
Perfect score: 49  
Sequence: 1 KLPDLCTEL 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	49	100.0	158	US-10-530-253-15	Sequence 15, Appl
2	49	100.0	158	US-10-530-253-20	Sequence 20, Appl
3	43	87.8	151	US-10-530-253-13	Sequence 13, Appl
4	43	87.8	158	US-10-530-253-19	Sequence 19, Appl
5	43	87.8	158	US-11-206-138-3	Sequence 3, Appl
6	43	87.8	248	US-10-530-253-1	Sequence 1, Appl
7	43	87.8	248	US-10-530-253-3	Sequence 3, Appl
8	43	87.8	248	US-10-530-253-5	Sequence 5, Appl
9	43	87.8	248	US-10-530-253-7	Sequence 7, Appl
10	43	87.8	248	US-10-530-253-9	Sequence 9, Appl
11	43	87.8	256	US-10-530-253-11	Sequence 11, Appl
12	43	87.8	256	US-11-192-923A-2	Sequence 2, Appl
13	43	75.5	158	US-10-530-253-26	Sequence 26, Appl
14	36	73.5	172	US-11-188-298-17891	Sequence 17891, A
15	36	73.5	1032	US-11-014-367-3	Sequence 3, Appl
16	35	71.4	228	US-11-264-096-492	Sequence 492, App
17	35	71.4	615	US-11-188-298-4756	Sequence 4756, App
18	35	71.4	812	US-11-079-463-6485	Sequence 6485, App
19	34	69.4	313	US-11-087-039-9808	Sequence 9808, App
20	34	69.4	326	US-11-072-512-3428	Sequence 3428, App
21	34	69.4	470	US-11-079-463-8862	Sequence 8862, App

22	33	67.3	160	US-10-530-253-25	Sequence 25, Appl
23	33	67.3	175	US-11-188-298-4065	Sequence 4065, App
24	33	67.3	243	US-11-079-463-9899	Sequence 9899, App
25	33	67.3	274	US-11-079-463-8578	Sequence 8578, App
26	33	67.3	384	US-11-072-512-3188	Sequence 3188, App
27	33	67.3	394	US-11-188-298-17317	Sequence 17317, A
28	33	67.3	419	US-11-230-321-2	Sequence 2, Appl
29	33	67.3	457	US-11-079-463-6587	Sequence 6587, App
30	33	67.3	565	US-11-096-568A-1994	Sequence 1994, App
31	33	67.3	565	US-11-096-568A-27236	Sequence 27236, A
32	33	67.3	624	US-11-096-568A-1993	Sequence 1993, App
33	33	67.3	624	US-11-096-568A-27235	Sequence 27235, A
34	33	67.3	625	US-11-096-568A-1992	Sequence 1992, App
35	33	67.3	625	US-11-096-568A-27234	Sequence 27234, A
36	33	67.3	679	US-11-079-463-7773	Sequence 7773, App
37	33	67.3	801	US-11-087-039-969	Sequence 969, App
38	32	65.3	149	US-10-530-253-18	Sequence 18, Appl
39	32	65.3	340	US-11-087-039-4414	Sequence 4414, App
40	32	65.3	340	US-11-188-298-15084	Sequence 15084, A
41	32	65.3	360	US-10-288-733-2	Sequence 2, Appl
42	32	65.3	376	US-10-506-454-713	Sequence 713, App
43	32	65.3	394	US-11-188-298-926	Sequence 926, App
44	32	65.3	394	US-11-188-298-1319	Sequence 1319, App
45	32	65.3	394	US-11-188-298-15528	Sequence 15528, A
46	32	65.3	553	US-11-103-957-61	Sequence 61, Appl
47	32	65.3	621	US-11-184-380-26	Sequence 26, Appl
48	32	65.3	664	US-10-793-626-1258	Sequence 1258, App
49	32	65.3	686	US-11-079-463-6039	Sequence 6039, App
50	32	65.3	754	US-10-467-962B-63	Sequence 63, Appl
51	32	65.3	836	US-11-087-029-2386	Sequence 2386, App
52	31	63.3	183	US-11-079-463-7409	Sequence 7409, App
53	31	63.3	177	US-11-079-463-7727	Sequence 7727, App
54	31	63.3	204	US-11-209-388-16	Sequence 16, Appl
55	31	63.3	205	US-11-209-388-10	Sequence 10, Appl
56	31	63.3	209	US-11-087-029-2315	Sequence 2315, App
57	31	63.3	229	US-10-242-586-8	Sequence 8, Appl
58	31	63.3	229	US-10-242-902-8	Sequence 8, Appl
59	31	63.3	229	US-10-243-116-8	Sequence 8, Appl
60	31	63.3	229	US-10-243-136-8	Sequence 8, Appl
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66	31	63.3	229	US-10-243-338-8	Sequence 8, Appl
67	31	63.3	229	US-10-243-345-8	Sequence 8, Appl
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69	31	63.3	229	US-10-245-083-8	Sequence 8, Appl
70	31	63.3	229	US-10-247-015-8	Sequence 8, Appl
71	31	63.3	268	US-11-045-004-2466	Sequence 2466, App
72	31	63.3	275	US-10-506-454-1472	Sequence 1472, App
73	31	63.3	291	US-11-096-568A-23393	Sequence 23393, A
74	31	63.3	298	US-11-096-568A-24700	Sequence 24700, A
75	31	63.3	340	US-11-096-568A-23392	Sequence 23392, A
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77	31	63.3	374	US-11-188-298-14269	Sequence 14269, A
78	31	63.3	382	US-10-703-1998-40	Sequence 40, Appl
79	31	63.3	390	US-11-096-568A-33351	Sequence 33351, A
80	31	63.3	390	US-11-096-568A-33629	Sequence 33629, A
81	31	63.3	394	US-11-188-298-21485	Sequence 21485, A
82	31	63.3	401	US-11-096-568A-32350	Sequence 32350, A
83	31	63.3	401	US-11-096-568A-33628	Sequence 33628, A
84	31	63.3	414	US-11-096-568A-23391	Sequence 23391, A
85	31	63.3	425	US-11-096-568A-33349	Sequence 33349, A
86	31	63.3	425	US-11-096-568A-33627	Sequence 33627, A
87	31	63.3	452	US-11-133-949-19	Sequence 19, Appl
88	31	63.3	457	US-11-087-039-10261	Sequence 10261, A
89	31	63.3	480	US-11-188-298-6789	Sequence 6789, App
90	31	63.3	578	US-10-505-298-401	Sequence 401, App
91	31	63.3	616	US-10-467-657-1220	Sequence 1220, App
92	31	63.3	633	US-11-063-343-26	Sequence 26, Appl
93	31	63.3	639	US-11-124-367A-379	Sequence 379, App
94	31	63.3	665	US-11-188-298-8758	Sequence 8758, App

95	31	63.3	782	11	US-11-124-367A-380	Sequence 380, App	168	30	61.2	1235	9	US-10-784-004-783	Sequence 783, App
96	31	63.3	799	11	US-11-124-367A-378	Sequence 378, App	169	30	61.2	1235	9	US-10-784-004-1111	Sequence 1111, App
97	31	63.3	801	9	US-10-532-153-9	Sequence 9, Appl1	170	30	61.2	1305	9	US-10-784-004-671	Sequence 671, App
98	31	63.3	808	9	US-10-532-153-3	Sequence 3, Appl1	171	30	61.2	1305	9	US-10-784-004-789	Sequence 789, App
99	31	63.3	808	9	US-10-532-153-6	Sequence 6, Appl1	172	30	61.2	1305	9	US-10-784-004-1066	Sequence 1066, App
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102	31	63.3	839	11	US-11-124-367A-377	Sequence 377, App	175	30	61.2	1515	9	US-10-784-004-1098	Sequence 1098, App
103	31	63.3	1559	9	US-10-508-307-1	Sequence 1, Appl1	176	30	61.2	1585	9	US-10-784-004-659	Sequence 659, App
104	31	63.3	1559	11	US-11-072-175-205	Sequence 205, App	177	30	61.2	1585	9	US-10-784-004-1078	Sequence 1078, App
105	31	63.3	4097	9	US-10-501-035-263	Sequence 263, App	178	30	61.2	1655	9	US-10-784-004-668	Sequence 668, App
106	31	63.3	4128	9	US-10-770-726-77	Sequence 77, Appl1	179	30	61.2	1655	9	US-10-784-004-1064	Sequence 1064, App
107	30	61.2	48	9	US-10-632-150-75	Sequence 75, Appl1	180	30	61.2	1725	9	US-10-784-004-659	Sequence 659, App
108	30	61.2	48	10	US-11-106-014-75	Sequence 75, Appl1	181	30	61.2	1725	9	US-10-784-004-1058	Sequence 1058, App
109	30	61.2	48	11	US-11-073-457-75	Sequence 75, Appl1	182	30	61.2	1795	9	US-10-784-004-662	Sequence 662, App
110	30	61.2	48	11	US-11-073-460-75	Sequence 75, Appl1	183	30	61.2	1795	9	US-10-784-004-1061	Sequence 1061, App
111	30	61.2	52	11	US-11-096-568A-1159	Sequence 1159, App	184	30	61.2	1935	9	US-10-784-004-311	Sequence 311, App
112	30	61.2	123	9	US-10-506-454-1596	Sequence 1596, App	185	30	61.2	1935	9	US-10-784-004-339	Sequence 329, App
113	30	61.2	144	11	US-11-172-740-1306	Sequence 1306, App	186	30	61.2	1935	9	US-10-784-004-331	Sequence 331, App
114	30	61.2	172	11	US-11-087-099-6040	Sequence 6040, App	187	30	61.2	1935	9	US-10-784-004-440	Sequence 440, App
115	30	61.2	184	9	US-10-665-658-7	Sequence 7, Appl1	188	30	61.2	1935	9	US-10-784-004-633	Sequence 633, App
116	30	61.2	184	9	US-10-665-658-8	Sequence 8, Appl1	189	30	61.2	1935	9	US-10-784-004-650	Sequence 650, App
117	30	61.2	186	9	US-10-784-004-352	Sequence 352, App	190	30	61.2	1935	9	US-10-784-004-757	Sequence 757, App
118	30	61.2	186	9	US-10-784-004-922	Sequence 922, App	191	30	61.2	1935	9	US-10-784-004-781	Sequence 781, App
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412	28	57.1	1036	9	US-10-152-370-142	Sequence 142, App	485	27	55.1	153	11	US-11-289-226-13	Sequence 13, Appl
413	28	57.1	1036	11	US-11-290-153-142	Sequence 142, App	486	27	55.1	162	11	US-11-055-822-1150	Sequence 1150, Ap
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416	28	57.1	1125	11	US-11-024-959-360	Sequence 360, Appl	489	27	55.1	168	11	US-11-055-822-360	Sequence 360, App
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446	27	55.1	86	11	US-11-264-096-868	Sequence 868, App	520	27	55.1	282	11	US-11-096-568A-33301	Sequence 33301, A
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582	27	55.1	445	9	US-10-517-939-368	Sequence 368, App	655	27	55.1	700	9	US-10-995-561-824	Sequence 824, App
583	27	55.1	446	11	US-11-096-568A-19198	Sequence 19198, A	656	27	55.1	720	11	US-10-195-889-88	Sequence 18, Appli
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596	27	55.1	473	9	US-10-203-486-10	Sequence 10, Appli	669	27	55.1	793	9	US-10-995-561-925	Sequence 925, App
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598	27	55.1	474	10	US-11-301-554-812	Sequence 1812, Ap	671	27	55.1	813	9	US-10-194-487-466	Sequence 466, App
599	27	55.1	480	11	US-11-079-463-8462	Sequence 8462, Ap	672	27	55.1	813	9	US-10-195-883-466	Sequence 466, App
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683	27	55.1	847	9	US-10-453-372-654	Sequence 654, App	756	26	53.1	33	9	US-10-760-085-106	Sequence 106, App
684	27	55.1	857	9	US-10-453-372-652	Sequence 652, App	757	26	53.1	35	9	US-10-527-833-1	Sequence 1, Appl
685	27	55.1	874	9	US-10-455-772-162	Sequence 162, App	758	26	53.1	38	11	US-11-050-857-1124	Sequence 1124, Ap
686	27	55.1	895	9	US-10-455-772-160	Sequence 160, App	759	26	53.1	46	9	US-10-207-797-152	Sequence 192, App
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690	27	55.1	905	9	US-10-453-372-662	Sequence 662, App	763	26	53.1	58	9	US-10-207-797-45	Sequence 45, Appl
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745	26.5	54.1	334	9	US-10-219-062-86	Sequence 86, Appl	818	26	53.1	58	9	US-10-207-797-183	Sequence 183, App
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975 26 53.1 301 11 US-11-096-568A-15460 Sequence 15460, A
976 26 53.1 302 11 US-11-087-099-7751 Sequence 7751, Ap
977 26 53.1 302 11 US-11-096-568A-32994 Sequence 32994, A
978 26 53.1 303 11 US-11-087-099-2307 Sequence 2307, Ap
979 26 53.1 303 11 US-11-096-568A-14763 Sequence 14763, A
980 26 53.1 304 11 US-11-079-463-9483 Sequence 9483, Ap
981 26 53.1 305 11 US-11-188-298-18401 Sequence 18401, A
982 26 53.1 306 11 US-11-166-412-220 Sequence 220, App
983 26 53.1 306 11 US-11-096-568A-33616 Sequence 33616, A
984 26 53.1 307 11 US-11-055-822-682 Sequence 682, App
985 26 53.1 312 9 US-11-166-412-228 Sequence 34, Appl
986 26 53.1 313 11 US-11-166-412-228 Sequence 228, App
987 26 53.1 315 9 US-10-703-799B-212 Sequence 212, App
988 26 53.1 315 11 US-11-188-298-20086 Sequence 20086, A
989 26 53.1 316 11 US-11-096-568A-32993 Sequence 32993, A
990 26 53.1 317 11 US-11-188-298-20023 Sequence 20023, A
991 26 53.1 318 11 US-11-096-568A-4387 Sequence 4387, Ap
992 26 53.1 319 9 US-10-511-538-21 Sequence 21, Appl
993 26 53.1 322 9 US-10-467-657-1794 Sequence 1794, Ap
994 26 53.1 323 11 US-11-096-568A-32443 Sequence 32443, A
995 26 53.1 323 11 US-11-188-298-6597 Sequence 6597, Ap
996 26 53.1 324 11 US-11-096-568A-17533 Sequence 17533, A
997 26 53.1 324 11 US-11-096-568A-22741 Sequence 22741, A
998 26 53.1 326 11 US-11-188-298-19263 Sequence 19263, A
999 26 53.1 327 11 US-11-096-568A-32992 Sequence 32992, A
1000 26 53.1 328 11 US-11-096-568A-20428 Sequence 20428, A
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## ALIGNMENTS

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RESULT 1
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match          100.0%; Score 49; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20
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Query Match          100.0%; Score 49; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 KLPDLC TEL 9
Db      13 KLPDLC TEL 21
```

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RESULT 3
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match          87.8%; Score 43; DB 9; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.46;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
RESULT 4
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
```



```

; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match      87.8%; Score 43; DB 9; Length 158;
Best Local Similarity 88.9%; Pred. No. 0.48;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      13 KLPDLCTEL 21

RESULT 5
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039191A1
; GENERAL INFORMATION:
; APPLICANT: Healthbanc Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match      87.8%; Score 43; DB 11; Length 158;
Best Local Similarity 88.9%; Pred. No. 0.48;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      18 KLPDLCTEL 26

RESULT 6
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
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```

; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match      87.8%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 0.74;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      11 KLPDLCTEL 19

RESULT 7
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match      87.8%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 0.74;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
      |||||
Db      11 KLPDLCTEL 19

RESULT 8
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match      87.8%; Score 43; DB 9; Length 248;
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Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 11 KLPOLCTEL 19

RESULT 9

US-10-530-253-7  
; Sequence 7, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-7

Query Match 87.8%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 108 KLPOLCTEL 116

RESULT 10

US-10-530-253-9  
; Sequence 9, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-9

Query Match 87.8%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||

Db 108 KLPOLCTEL 116

RESULT 11

US-10-530-253-11  
; Sequence 11, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-11

Query Match 87.8%; Score 43; DB 9; Length 248;  
Best Local Similarity 88.9%; Pred. No. 0.74;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 108 KLPOLCTEL 116

RESULT 12

US-11-192-923A-2  
; Sequence 2, Application US/11192923A  
; Publication No. US20060018928A1  
; GENERAL INFORMATION:  
; APPLICANT: PANG, XIAOWU  
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS  
; FILE REFERENCE: 116620-003  
; CURRENT APPLICATION NUMBER: US/11/192,923A  
; PRIOR FILING DATE: 2005-07-29  
; PRIOR APPLICATION NUMBER: CN 03115272.4  
; PRIOR FILING DATE: 2003-01-30  
; PRIOR APPLICATION NUMBER: CN 03115273.2  
; PRIOR FILING DATE: 2003-01-30  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 2  
; LENGTH: 256  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-11-192-923A-2

Query Match 87.8%; Score 43; DB 11; Length 256;  
Best Local Similarity 88.9%; Pred. No. 0.76;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDICTEL 9  
||| |||||  
Db 116 KLPOLCTEL 124

RESULT 13

US-10-530-253-26  
; Sequence 26, Application US/10530253  
; Publication No. US20060014926A1

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/ GENERAL INFORMATION:
/ APPLICANT: Casasetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M17-US2
/ CURRENT APPLICATION NUMBER: US/10/530.253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 26
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match          75.5%; Score 37; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 6.6;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9
Db 13 KLPDLCTRL 21

RESULT 14
US-11-188-298-17891
/ Sequence 17891, Application US/11188298
/ Publication No. US20060075522A1
/ GENERAL INFORMATION:
/ APPLICANT: Abad, Mark S. et al.
/ TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
/ FILE REFERENCE: 38-21(53452)B
/ CURRENT APPLICATION NUMBER: US/11/188,298
/ PRIOR FILING DATE: 2005-07-22
/ PRIOR APPLICATION NUMBER: 60/592,978
/ PRIOR FILING DATE: 2004-07-31
/ NUMBER OF SEQ ID NOS: 22569
/ SEQ ID NO 17891
/ LENGTH: 172
/ TYPE: PRT
/ ORGANISM: Prochlorococcus marinus str. MIT 9313
US-11-188-298-17891

Query Match          73.5%; Score 36; DB 11; Length 172;
Best Local Similarity 77.8%; Pred. No. 11;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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/ PRIOR FILING DATE: 2003-12-16
/ NUMBER OF SEQ ID NOS: 11
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 3
/ LENGTH: 1032
/ TYPE: PRT
/ ORGANISM: Rattus norvegicus
US-11-014-367-3

Query Match          73.5%; Score 36; DB 11; Length 1032;
Best Local Similarity 100.0%; Pred. No. 63;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 PDLCTE 8
Db 262 PDLCTE 267

RESULT 16
US-11-264-096-492
/ Sequence 492, Application US/11264096
/ Publication No. US20060084794A1
/ GENERAL INFORMATION:
/ APPLICANT: Rosen et al.
/ TITLE OF INVENTION: Albumin Fusion Proteins
/ FILE REFERENCE: PR546D1
/ CURRENT APPLICATION NUMBER: US/11/264,096
/ PRIOR FILING DATE: 2005-11-02
/ PRIOR APPLICATION NUMBER: 09/833,245
/ PRIOR FILING DATE: 2001-04-12
/ PRIOR APPLICATION NUMBER: 60/229, 358
/ PRIOR FILING DATE: 2000-04-12
/ PRIOR APPLICATION NUMBER: 60/256, 931
/ PRIOR FILING DATE: 2000-12-21
/ PRIOR APPLICATION NUMBER: 60/199, 384
/ PRIOR FILING DATE: 2000-04-25
/ NUMBER OF SEQ ID NOS: 2267
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 492
/ LENGTH: 228
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-264-096-492

Query Match          71.4%; Score 35; DB 11; Length 228;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KLPDLCTEL 9
Db 55 QLPDLCTVNL 63

RESULT 17
US-11-188-298-4756
/ Sequence 4756, Application US/11188298
/ Publication No. US20060075522A1
/ GENERAL INFORMATION:
/ APPLICANT: Abad, Mark S. et al.
/ TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
/ FILE REFERENCE: 38-21(53452)B
/ CURRENT APPLICATION NUMBER: US/11/188,298
/ PRIOR FILING DATE: 2005-07-22
/ PRIOR APPLICATION NUMBER: 60/592,978
/ PRIOR FILING DATE: 2004-07-31
/ NUMBER OF SEQ ID NOS: 22569
/ SEQ ID NO 4756
/ LENGTH: 615
/ TYPE: PRT
/ ORGANISM: Oryza sativa
US-11-188-298-4756

Query Match          71.4%; Score 35; DB 11; Length 615;
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Best Local Similarity 77.8%; Pred. No. 59;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||:|  
Db 476 KLPDLCTEL 484

RESULT 18  
US-11-079-463-6485

; Sequence 6485, Application US/11079463  
; Publication No. US20060073161A1

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRM

; FILE REFERENCE: PATH00-03DIV2

; CURRENT APPLICATION NUMBER: US/11/079,463

; PRIOR FILING DATE: 2005-03-14

; PRIOR APPLICATION NUMBER: US 60/128,705

; PRIOR FILING DATE: 1999-04-09

; PRIOR APPLICATION NUMBER: US 09/540,209

; PRIOR FILING DATE: 2000-04-04

; NUMBER OF SEQ ID NOS: 10444

; SEQ ID NO 6485

; LENGTH: 812

; TYPE: PRT

; ORGANISM: B. fragilis

US-11-079-463-6485

Query Match 71.4%; Score 35; DB 11; Length 812;  
Best Local Similarity 85.7%; Pred. No. 77;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLPDLCT 7  
|||:|  
Db 764 KLPDLCT 770

RESULT 19  
US-11-087-099-9808

; Sequence 9808, Application US/11087099

; Publication No. US2006001961A1

; GENERAL INFORMATION:

; APPLICANT: Abad, Mark S. et al.

; TITLE OF INVENTION: Genes and Uses for Plant Improvement

; FILE REFERENCE: 38-21(53450)B EP

; CURRENT APPLICATION NUMBER: US/11/087,099

; CURRENT FILING DATE: 2005-03-22

; NUMBER OF SEQ ID NOS: 12464

; SEQ ID NO 9808

; LENGTH: 313

; TYPE: PRT

; ORGANISM: Shewanella oneidensis MR-1

US-11-087-099-9808

Query Match 69.4%; Score 34; DB 11; Length 313;  
Best Local Similarity 75.0%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LPDLCTEL 9  
|||:|  
Db 97 LPDLCTEL 104

RESULT 20  
US-11-072-512-3428

; Sequence 3428, Application US/11072512

; Publication No. US20060029945A1

; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO

; APPLICANT: SUGIYAMA, TOMOYASU

; APPLICANT: OTSUKI, TETSUJI

; APPLICANT: WAKAMATSU, AI

; APPLICANT: SATO, HIROYUKI

; APPLICANT: ISHII, SHIZUKO

; APPLICANT: YAMAMOTO, JUN-ICHI

; APPLICANT: ISONO, YUUKO

; APPLICANT: HIO, YURI

; APPLICANT: OTSUKA, KAORU

; APPLICANT: NAGAI, KEIICHI

; APPLICANT: IRIE, RYOTARO

; APPLICANT: TAMECHIKA, ICHIRO

; APPLICANT: SEKI, NAOHICO

; APPLICANT: YOSHIKAWA, TSUTOMU

; APPLICANT: OTSUKA, MOTOTYUKI

; APPLICANT: NAGAHARI, KENJI

; APPLICANT: MASUHO, YASUHIKO

; TITLE OF INVENTION: Novel full length cDNA

; FILE REFERENCE: 08435-0191

; CURRENT APPLICATION NUMBER: US/11/072,512

; CURRENT FILING DATE: 2005-03-07

; PRIOR APPLICATION NUMBER: US 60/350,978

; PRIOR FILING DATE: 2002-01-25

; PRIOR APPLICATION NUMBER: JP 2001-379298

; PRIOR FILING DATE: 2001-11-05

; NUMBER OF SEQ ID NOS: 4096

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3428

; LENGTH: 326

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-072-512-3428

Query Match 69.4%; Score 34; DB 11; Length 326;  
Best Local Similarity 77.8%; Pred. No. 49;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
|||:|  
Db 124 KLPDLCTEL 132

RESULT 21  
US-11-079-463-8862

; Sequence 8862, Application US/11079463

; Publication No. US20060073161A1

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRM

; FILE REFERENCE: PATH00-03DIV2

; CURRENT APPLICATION NUMBER: US/11/079,463

; CURRENT FILING DATE: 2005-03-14

; PRIOR APPLICATION NUMBER: US 60/128,705

; PRIOR FILING DATE: 1999-04-09

; PRIOR APPLICATION NUMBER: US 09/540,209

; PRIOR FILING DATE: 2000-04-04

; NUMBER OF SEQ ID NOS: 10444

; SEQ ID NO 8862

; LENGTH: 470

; TYPE: PRT

; ORGANISM: B. fragilis

US-11-079-463-8862

Query Match 69.4%; Score 34; DB 11; Length 470;  
Best Local Similarity 85.7%; Pred. No. 70;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LPDLCTE 8  
|||:|  
Db 292 LPDLCTE 298

RESULT 22  
US-10-530-253-25

```
/ Sequence 25, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassecci, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 25
/ LENGTH: 160
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 59
US-10-530-253-25
```

```
Query Match 67.3%; Score 33; DB 9; Length 160;
Best Local Similarity 77.8%; Pred. No. 38;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 KLPDLCTEL 9
Db 13 KLPDLSTTL 21
```

```
RESULT 23
US-11-188-298-4065
/ Sequence 4065, Application US/11188298
/ Publication No. US20060075522A1
/ GENERAL INFORMATION:
/ APPLICANT: Abad, Mark S. et al.
/ TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
/ FILE REFERENCE: 38-21(53452)B
/ CURRENT APPLICATION NUMBER: US/11/188,298
/ CURRENT FILING DATE: 2005-07-22
/ PRIOR APPLICATION NUMBER: 60/592,978
/ PRIOR FILING DATE: 2004-07-31
/ NUMBER OF SEQ ID NOS: 22569
/ SEQ ID NO 4065
/ LENGTH: 175
/ TYPE: PRT
/ ORGANISM: Triticum aestivum
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(175)
/ OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-4065
```

```
Query Match 67.3%; Score 33; DB 11; Length 175;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 2 LPDLCTE 8
Db 65 LPPLCTE 71
```

```
RESULT 24
US-11-079-463-9899
/ Sequence 9899, Application US/11079463
/ Publication No. US20060073161A1
/ GENERAL INFORMATION:
/ APPLICANT: Gary L. Breton
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
/ FILE REFERENCE: PATH00-03DIV2
```

```
/ CURRENT APPLICATION NUMBER: US/11/079,463
/ CURRENT FILING DATE: 2005-03-14
/ PRIOR APPLICATION NUMBER: US 60/128,705
/ PRIOR FILING DATE: 1999-04-09
/ PRIOR APPLICATION NUMBER: US 09/540,209
/ PRIOR FILING DATE: 2000-04-04
/ NUMBER OF SEQ ID NOS: 10444
/ SEQ ID NO 9899
/ LENGTH: 243
/ TYPE: PRT
/ ORGANISM: B. fragilis
US-11-079-463-9899
```

```
Query Match 67.3%; Score 33; DB 11; Length 243;
Best Local Similarity 71.4%; Pred. No. 58;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 2 LPDLCTE 8
Db 144 VPDLCTE 150
```

```
RESULT 25
US-11-079-463-8578
/ Sequence 8578, Application US/11079463
/ Publication No. US20060073161A1
/ GENERAL INFORMATION:
/ APPLICANT: Gary L. Breton
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
/ FILE REFERENCE: PATH00-03DIV2
/ CURRENT APPLICATION NUMBER: US/11/079,463
/ CURRENT FILING DATE: 2005-03-14
/ PRIOR APPLICATION NUMBER: US 60/128,705
/ PRIOR FILING DATE: 1999-04-09
/ PRIOR APPLICATION NUMBER: US 09/540,209
/ PRIOR FILING DATE: 2000-04-04
/ NUMBER OF SEQ ID NOS: 10444
/ SEQ ID NO 8578
/ LENGTH: 274
/ TYPE: PRT
/ ORGANISM: B. fragilis
US-11-079-463-8578
```

```
Query Match 67.3%; Score 33; DB 11; Length 274;
Best Local Similarity 75.0%; Pred. No. 65;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 2 LPDLCTEL 9
Db 35 LPDLCTDL 42
```

```
RESULT 26
US-11-072-512-3188
/ Sequence 3188, Application US/11072512
/ Publication No. US20060029945A1
/ GENERAL INFORMATION:
/ APPLICANT: ISOGAI, TAKAO
/ APPLICANT: SUGIYAMA, TOMOYASU
/ APPLICANT: OTSUKI, TETSUJI
/ APPLICANT: WAKAMATSU, AI
/ APPLICANT: SATO, HIROYUKI
/ APPLICANT: ISHII, SHIZUKO
/ APPLICANT: YAMAMOTO, JUN-ICHI
/ APPLICANT: ISONO, YUUKO
/ APPLICANT: HIO, YURI
/ APPLICANT: OTSUKA, KAORU
/ APPLICANT: NAGAI, KEIICHI
/ APPLICANT: IRIE, RYOTARO
/ APPLICANT: TAMECHIKA, ICHIRO
/ APPLICANT: SEKI, NAOHICO
/ APPLICANT: YOSHIKAWA, TSUTOMU
```

```

; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIRO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3188
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3188

Query Match      67.3%; Score 33; DB 11; Length 384;
Best Local Similarity 75.0%; Pred. No. 90;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 1LPDLCTEL 9
Db      348 LPDLCTSL 355

RESULT 27
US-11-188-298-17317
; Sequence 17317, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Adad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17317
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-17317

Query Match      67.3%; Score 33; DB 11; Length 394;
Best Local Similarity 62.5%; Pred. No. 92;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      326 KLPDLCTSD 333

RESULT 28
US-11-230-321-2
; Sequence 2, Application US/11230321
; Publication No. US20060068485A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yi
; APPLICANT: Nepomnichy, Boris
; TITLE OF INVENTION: Novel Human Synaptocagmin and Polynucleotides Encoding
; FILE REFERENCE: LEX-0330-USA
; CURRENT APPLICATION NUMBER: US/11/230,321
; CURRENT FILING DATE: 2005-09-19
; PRIOR APPLICATION NUMBER: US/10/094,162
; PRIOR FILING DATE: 2002-03-06
; PRIOR APPLICATION NUMBER: US 60/276,594
; PRIOR FILING DATE: 2001-03-16
; NUMBER OF SEQ ID NOS: 3
```

```

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 419
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-230-321-2

Query Match      67.3%; Score 33; DB 11; Length 419;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      270 KLDICTSL 278

RESULT 29
US-11-079-463-6587
; Sequence 6587, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PATH00-03D1V2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6587
; LENGTH: 457
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-6587

Query Match      67.3%; Score 33; DB 11; Length 457;
Best Local Similarity 85.7%; Pred. No. 11e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCT 7
Db      280 KLPDLCT 286

RESULT 30
US-11-096-568A-1994
; Sequence 1994, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1994
; LENGTH: 565
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: (1)..(565)
; OTHER INFORMATION: Ceres Seq. ID no. 15180389
US-11-096-568A-1994

Query Match      67.3%; Score 33; DB 11; Length 565;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 4 DLCTEL 9  
| | | | |  
Db 183 DLCTEL 188

RESULT 31  
US-11-096-568A-27236  
; Sequence 27236, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 27236  
; LENGTH: 565  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(565)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180389  
US-11-096-568A-27236

Query Match 67.3%; Score 33; DB 11; Length 565;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DLCTEL 9  
| | | | |  
Db 183 DLCTEL 188

RESULT 32  
US-11-096-568A-1993  
; Sequence 1993, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 1993  
; LENGTH: 624  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(624)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180388  
US-11-096-568A-1993

Query Match 67.3%; Score 33; DB 11; Length 624;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DLCTEL 9  
| | | | |  
Db 242 DLCTEL 247

RESULT 33  
US-11-096-568A-27235  
; Sequence 27235, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.

; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 27235  
; LENGTH: 624  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(624)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180388  
US-11-096-568A-27235

Qy 4 DLCTEL 9  
| | | | |  
Db 242 DLCTEL 247

Query Match 67.3%; Score 33; DB 11; Length 624;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 34  
US-11-096-568A-1992  
; Sequence 1992, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 1992  
; LENGTH: 625  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(625)  
; OTHER INFORMATION: Ceres Seq. ID no. 15180387  
US-11-096-568A-1992

Query Match 67.3%; Score 33; DB 11; Length 625;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DLCTEL 9  
| | | | |  
Db 243 DLCTEL 248

RESULT 35  
US-11-096-568A-27234  
; Sequence 27234, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 27234  
; LENGTH: 625  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:

```

; NAME/KEY: misc.feature
; LOCATION: (1)..(625)
; OTHER INFORMATION: Ceres Seq. ID no. 15180387
US-11-096-568A-27234

```

```

Query Match          67.3%; Score 33; DB 11; Length 625;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      4 DLCTEL 9
        |||||
Db      243 DLCTEL 248

```

```

RESULT 36
US-11-079-463-7773
; Sequence 7773, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PAT00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7773
; LENGTH: 679
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-7773

```

```

Query Match          67.3%; Score 33; DB 11; Length 679;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      2 LPDLCTEL 9
        |||||
Db      159 LPDLCTEL 166

```

```

RESULT 37
US-11-087-099-969
; Sequence 969, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 969
; LENGTH: 801
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-11-087-099-969

```

```

Query Match          67.3%; Score 33; DB 11; Length 801;
Best Local Similarity 57.1%; Pred. No. 1.8e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 LPDLCTE 8
        |||||
Db      616 LPDLCTD 622

```

```

RESULT 38
US-10-530-253-18

```

```

; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

```

```

Query Match          65.3%; Score 32; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 56;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 KLDPDLCTEL 9
        |||||
Db      11 KLHDLCTEY 19

```

```

RESULT 39
US-11-087-099-4414
; Sequence 4414, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4414
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Boea crassifolia
US-11-087-099-4414

```

```

Query Match          65.3%; Score 32; DB 11; Length 340;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      2 LPDLCTE 8
        |||||
Db      210 LPDLCTAD 216

```

```

RESULT 40
US-11-188-298-15084
; Sequence 15084, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15084
; LENGTH: 340

```



```
; TYPE: PRT
; ORGANISM: Borea crassifolia
US-11-188-298-15084

Query Match      65.3%; Score 32; DB 11; Length 340;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LDPDLCTE 8
Db      210 LDPDLCAD 216

RESULT 41
US-10-288-733-2
; Sequence 2, Application US/10288733
; Publication No. US2006005360A1
; GENERAL INFORMATION:
; APPLICANT: KIM, Jin-Woo
; TITLE OF INVENTION: HUMAN CERVICAL CANCER 1 PROTOONCOGENE AND PROTEIN ENCODED THEREIN
; FILE REFERENCE: KIM
; CURRENT APPLICATION NUMBER: US/10/288,733
; CURRENT FILING DATE: 2002-11-05/868,474
; PRIOR APPLICATION NUMBER: US/09/868,474
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: KR 1999-44811
; PRIOR FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: PCT/KR00/00284
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (435)..(494)
; OTHER INFORMATION: transmembrane domain
US-10-288-733-2

Query Match      65.3%; Score 32; DB 9; Length 360;
Best Local Similarity 55.6%; Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      213 RLTDLCTKI 221

RESULT 42
US-10-506-454-713
; Sequence 713, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Meshevaeva, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherdinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozayavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
```

```
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 713
; LENGTH: 376
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-713

Query Match      65.3%; Score 32; DB 9; Length 376;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 KLPDLCTEL 9
Db      16 RAPDVCREL 24

RESULT 43
US-11-188-298-926
; Sequence 926, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 926
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-926

Query Match      65.3%; Score 32; DB 11; Length 394;
Best Local Similarity 62.5%; Pred. No. 1.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      326 KLPDSCSD 333

RESULT 44
US-11-188-298-1319
; Sequence 1319, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1319
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-1319

Query Match      65.3%; Score 32; DB 11; Length 394;
Best Local Similarity 62.5%; Pred. No. 1.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 KLPDLCTE 8
Db      326 KLPDSCSD 333

RESULT 45
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US-11-188-298-15528
; Sequence 15528, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15528
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-15528

Query Match
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Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTE 8
Db 326 KLPDSCSD 333

RESULT 46
US-11-103-957-61
; Sequence 61, Application US/11103957
; Publication No. US20050281847A1
; GENERAL INFORMATION:
; APPLICANT: Berthet, Francois-Xavier Jacques
; APPLICANT: Lobet, Yves
; APPLICANT: Poolman, Jan
; APPLICANT: Verlant, Vincent Georges Christian Louis
; TITLE OF INVENTION: Vaccine Composition
; FILE REFERENCE: B45261
; CURRENT APPLICATION NUMBER: US/11/103,957
; CURRENT FILING DATE: 2005-04-12
; PRIOR APPLICATION NUMBER: US/10/467,534
; PRIOR FILING DATE: 2004-02-03
; PRIOR APPLICATION NUMBER: PCT/EP02/01356
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: GB 0103169.9
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-11-103-957-61

Query Match
Best Local Similarity 65.3%; Score 32; DB 11; Length 553;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 KLPDLCTE 9
Db 12 KTPSLCREL 20

RESULT 47
US-11-184-380-26
; Sequence 26, Application US/11184380
; Publication No. US20050255089A1
; GENERAL INFORMATION:
; APPLICANT: Chiorini, John
; APPLICANT: Kolin, Robert M.
; TITLE OF INVENTION: AAVS NUCLEIC ACIDS
; FILE REFERENCE: 14014.0323U3
; CURRENT APPLICATION NUMBER: US/11/184,380
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; CURRENT FILING DATE: 2005-07-19
; PRIOR APPLICATION NUMBER: PCT/US99/11958
; PRIOR FILING DATE: 1999-05-28
; PRIOR APPLICATION NUMBER: 60/087,029
; PRIOR FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 621
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence; Note =
US-11-184-380-26

Query Match
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Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCT 7
Db 599 KVPDACT 605

RESULT 48
US-10-793-626-1258
; Sequence 1258, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STRAPHLOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 1258
; LENGTH: 664
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-1258

Query Match
Best Local Similarity 65.3%; Score 32; DB 9; Length 664;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KLPDLCTE 9
Db 341 KMSNCTEI 349

RESULT 49
US-11-079-463-6039
; Sequence 6039, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRD
; FILE REFERENCE: PAT00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
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; SEQ ID NO 6039  
; LENGTH: 686  
; TYPE: PRT  
; ORGANISM: B.fragilis  
US-11-079-463-6039

Query Match 65.3%; Score 32; DB 11; Length 686;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KLPDLCTEL 9  
Db 64 QLPDVCEEL 72

RESULT 50  
US-10-467-962B-63  
; Sequence 63, Application US/10467962B  
; Publication No. US20050246784A1  
; GENERAL INFORMATION:  
; APPLICANT: Plesch, Gunnar  
; APPLICANT: Blau, Astrid  
; APPLICANT: Daeschner, Klaus  
; APPLICANT: Klein, Mathieu  
; TITLE OF INVENTION: Identification of Herbicidally Active Substances  
; FILE REFERENCE: 2000, 857  
; CURRENT APPLICATION NUMBER: US/10/467, 962B  
; CURRENT FILING DATE: 2003-08-14  
; PRIOR APPLICATION NUMBER: PCT/EP02/01466  
; PRIOR FILING DATE: 2002-02-13  
; NUMBER OF SEQ ID NOS: 109  
; SOFTWARE: PatentIn Vers. 2.0  
; SEQ ID NO 63  
; LENGTH: 754  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-10-467-962B-63

Query Match 65.3%; Score 32; DB 9; Length 754;  
Best Local Similarity 83.3%; Pred. No. 2.7e+02;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LPDLCT 7  
Db 397 LPDVCT 402

Search completed: May 5, 2006, 08:51:42  
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OM protein - protein search, using SW model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds  
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Title: US-08-170-344-22  
Perfect score: 46  
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Post-processing: Minimum Match 0%  
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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2	46	100.0	32	2	US-08-466-285-2
3	46	100.0	32	2	US-08-164-768-2
4	46	100.0	158	1	US-08-247-904B-10
5	46	100.0	158	2	US-08-767-942A-19
6	46	100.0	271	1	US-08-117-083-14
7	46	100.0	278	2	US-09-485-885-21
8	46	100.0	383	2	US-09-485-885-23
9	42	91.3	10	2	US-08-159-339A-86
10	38	82.6	509	2	US-08-809-999D-17
11	38	82.6	509	2	US-09-069-637-17
12	38	82.6	509	2	US-09-322-360-17
13	38	82.6	509	2	US-09-131-831B-17
14	38	82.6	509	2	US-09-949-016-11233
15	36	78.3	127	2	US-09-253-991A-28397
16	35	76.1	724	2	US-09-248-796A-19040
17	34	73.9	519	2	US-09-720-655B-1
18	34	73.9	520	2	US-08-964-127-2
19	34	73.9	520	2	US-09-496-692-2
20	34	73.9	520	2	US-10-000-273-2
21	34	73.9	3135	1	US-08-323-170B-2
22	34	73.9	3135	2	US-08-954-441-2
23	33	71.7	286	2	US-09-328-352-7626
24	33	71.7	839	2	US-09-949-016-10846
25	33	71.7	873	1	US-08-912-129A-61
26	33	71.7	873	1	US-08-911-824-61
27	32	69.6	53	2	US-09-270-767-61394

28	32	69.6	303	2	US-09-270-767-45862	Sequence 45862, A
29	32	69.6	402	2	US-09-270-767-46012	Sequence 46012, A
30	32	69.6	873	2	US-09-543-681A-6827	Sequence 6827, Ap
31	31	67.4	123	2	US-09-543-681A-4522	Sequence 4522, Ap
32	31	67.4	126	2	US-09-489-039A-8230	Sequence 8230, Ap
33	31	67.4	205	2	US-09-134-001C-4766	Sequence 4766, Ap
34	31	67.4	369	2	US-09-519-232-74	Sequence 74, Appl
35	31	67.4	592	2	US-09-248-796A-11389	Sequence 11389, A
36	31	67.4	733	2	US-09-270-767-41526	Sequence 41526, A
37	31	67.4	826	2	US-09-248-796A-14387	Sequence 14387, A
38	31	67.4	852	2	US-09-585-858-19	Sequence 19, Appl
39	31	67.4	1394	1	US-10-270-878-19	Sequence 19, Appl
40	31	67.4	4968	2	US-08-680-326-35	Sequence 35, Appl
41	31	67.4	10	2	US-09-424-783-5	Sequence 5, Appl1
42	30	65.2	281	2	US-09-051-529-1	Sequence 1, Appl1
43	30	65.2	322	2	US-09-949-016-6831	Sequence 6831, Ap
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47	30	65.2	324	2	US-09-949-016-7870	Sequence 7870, Ap
48	30	65.2	324	2	US-08-624-545-1	Sequence 1, Appl1
49	30	65.2	343	1	US-09-235-736-1	Sequence 1, Appl1
50	30	65.2	344	2	US-09-024-531-4	Sequence 4, Appl1
51	30	65.2	345	2	US-07-792-259-12	Sequence 12, Appl1
52	30	65.2	345	2	US-09-874-132-24	Sequence 24, Appl1
53	30	65.2	352	2	US-09-103-531-38	Sequence 38, Appl1
54	30	65.2	352	2	US-09-631-594-47	Sequence 47, Appl1
55	30	65.2	353	1	US-08-458-023B-6	Sequence 6, Appl1
56	30	65.2	364	1	US-07-792-259-17	Sequence 17, Appl1
57	30	65.2	435	1	US-08-331-515A-2	Sequence 2, Appl1
58	30	65.2	435	1	US-09-168-406A-2	Sequence 2, Appl1
59	30	65.2	435	2	US-09-949-016-6949	Sequence 6949, Ap
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61	30	65.2	455	2	US-09-949-016-11026	Sequence 4, Appl1
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63	30	65.2	472	1	US-08-749-903-5	Sequence 4, Appl1
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65	30	65.2	472	2	US-09-088-641-5	Sequence 5, Appl1
66	30	65.2	484	2	US-09-134-001C-5402	Sequence 5402, Ap
67	30	65.2	544	2	US-09-383-586-36	Sequence 36, Appl1
68	30	65.2	574	2	US-09-823-038A-36	Sequence 36, Appl1
69	30	65.2	574	2	US-09-823-038A-36	Sequence 5, Appl1
70	30	65.2	887	1	US-07-596-467-2	Sequence 2, Appl1
71	30	65.2	887	1	US-07-934-374-2	Sequence 2, Appl1
72	30	65.2	887	1	US-07-783-661C-4	Sequence 4, Appl1
73	30	65.2	934	2	US-09-949-002-289	Sequence 289, App
74	30	65.2	981	2	US-09-949-002-513	Sequence 513, App
75	30	65.2	1210	2	US-10-771-708-10	Sequence 10, Appl
76	30	65.2	25	2	US-09-084-303B-296	Sequence 296, App
77	29	63.0	68	2	US-09-445-480D-22	Sequence 22, Appl
78	29	63.0	76	2	US-09-270-767-58987	Sequence 58987, A
79	29	63.0	76	2	US-09-084-303B-202	Sequence 202, App
80	29	63.0	84	2	US-09-248-796A-27164	Sequence 27164, A
81	29	63.0	117	2	US-09-902-590-13798	Sequence 11798, A
82	29	63.0	120	2	US-08-728-742A-1	Sequence 1, Appl1
83	29	63.0	134	2	US-09-328-352-6876	Sequence 6876, Ap
84	29	63.0	143	2	US-09-270-767-41419	Sequence 34149, A
85	29	63.0	143	2	US-09-270-767-49366	Sequence 49366, A
86	29	63.0	146	2	US-09-270-767-40291	Sequence 40291, A
87	29	63.0	146	2	US-09-270-767-55507	Sequence 55507, A
88	29	63.0	146	2	US-09-605-703B-1180	Sequence 1180, Ap
89	29	63.0	165	2	US-09-270-767-39739	Sequence 39739, A
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91	29	63.0	249	2	US-09-248-796A-23563	Sequence 23563, A
92	29	63.0	256	2	US-09-248-796A-18537	Sequence 18537, A
93	29	63.0	257	2	US-09-270-767-43610	Sequence 43610, A
94	29	63.0	265	2	US-08-413-805-3	Sequence 3, Appl1
95	29	63.0	267	2	US-09-134-000C-3885	Sequence 3885, Ap
96	29	63.0	292	2	US-09-240-816B-2	Sequence 2, Appl1
97	29	63.0	292	2	US-09-583-110-3960	Sequence 3960, Ap
98	29	63.0	293	2	US-09-248-796A-18536	Sequence 18536, A
99	29	63.0	295	2	US-09-107-433-4794	Sequence 4794, Ap
100	29	63.0	314	2	US-09-919-497-82	Sequence 82, Appl

101	29	63.0	324	2	US-09-198-452A-782	Sequence 782, App	174	28	60.9	164	2	US-09-245-281-41	Sequence 41, Appl
102	29	63.0	351	2	US-09-438-185A-736	Sequence 736, App	175	28	60.9	164	2	US-09-207-359B-41	Sequence 41, Appl
103	29	63.0	364	2	US-09-071-035-320	Sequence 320, App	176	28	60.9	164	2	US-09-340-620A-41	Sequence 41, Appl
104	29	63.0	364	2	US-10-206-576-320	Sequence 320, App	177	28	60.9	164	2	US-09-865-364-41	Sequence 41, Appl
105	29	63.0	376	2	US-09-248-796A-17862	Sequence 17862, A	178	28	60.9	164	2	US-09-728-721-41	Sequence 72, Appl
106	29	63.0	376	2	US-10-095-975-2	Sequence 2, Appl1	179	28	60.9	166	2	US-06-256-204C-72	Sequence 72, Appl
107	29	63.0	377	2	US-09-190-965-5	Sequence 5, Appl1	180	28	60.9	167	2	US-07-145-002B-46	Sequence 46, Appl
108	29	63.0	377	2	US-09-470-253-5	Sequence 5, Appl1	181	28	60.9	167	2	US-06-256-204C-46	Sequence 46, Appl
109	29	63.0	377	2	US-09-071-035-318	Sequence 318, App	182	28	60.9	185	2	US-09-583-110-2898	Sequence 2898, Ap
110	29	63.0	387	2	US-10-206-576-318	Sequence 318, App	183	28	60.9	189	1	US-08-026-758-10	Sequence 10, Appl
111	29	63.0	400	2	US-09-605-703B-1178	Sequence 1178, Ap	184	28	60.9	189	2	US-07-145-002B-4	Sequence 4, Appl1
112	29	63.0	571	2	US-09-602-472A-8	Sequence 8, Appl1	185	28	60.9	189	2	US-06-256-204C-4	Sequence 4, Appl1
113	29	63.0	695	6	5460961-5	Patent No. 5460961	186	28	60.9	189	2	US-06-256-204C-18	Sequence 18, Appl
114	29	63.0	761	2	US-09-949-016-9802	Sequence 9802, Ap	187	28	60.9	189	2	US-09-107-433-5167	Sequence 5167, Ap
115	29	63.0	857	2	US-09-248-796A-20522	Sequence 20522, A	188	28	60.9	196	2	US-09-019-942-3	Sequence 3, Appl1
116	29	63.0	953	1	US-08-506-340A-1	Sequence 1, Appl1	189	28	60.9	200	2	US-09-470-271-3	Sequence 3, Appl1
117	29	63.0	969	2	US-09-118-276-2	Sequence 2, Appl1	190	28	60.9	200	2	US-09-748-537-3	Sequence 3, Appl1
118	29	63.0	980	2	US-09-118-276-11	Sequence 11, Appl1	191	28	60.9	202	2	US-09-605-703B-3356	Sequence 2356, Ap
119	29	63.0	982	2	US-09-236-995D-2	Sequence 2, Appl1	192	28	60.9	218	2	US-09-483-588-10	Sequence 10, Appl
120	29	63.0	985	2	US-09-248-796A-16090	Sequence 16090, A	193	28	60.9	218	2	US-08-887-534A-16	Sequence 16, Appl
121	29	63.0	1032	2	US-09-733-643B-16	Sequence 16, Appl	194	28	60.9	233	2	US-08-887-534A-20	Sequence 20, Appl
122	29	63.0	1121	2	US-08-915-048A-2	Sequence 2, Appl1	195	28	60.9	233	2	US-08-887-534A-16	Sequence 16, Appl
123	29	63.0	1401	2	US-08-781-891-206	Sequence 206, App	196	28	60.9	233	2	US-09-527-431-16	Sequence 20, Appl
124	29	63.0	1401	2	US-09-127-670-6	Sequence 6, App	197	28	60.9	233	2	US-09-527-431-20	Sequence 20, Appl
125	29	63.0	1401	2	US-09-618-166-206	Sequence 206, App	198	28	60.9	233	2	US-09-446-861-16	Sequence 16, Appl
126	29	63.0	1535	2	US-08-755-587-185	Sequence 185, App	199	28	60.9	233	2	US-09-446-861-20	Sequence 20, Appl
127	29	63.0	3559	2	US-09-693-205A-10	Sequence 10, Appl	200	28	60.9	234	2	US-09-634-238-220	Sequence 220, App
128	29	60.9	36	2	US-09-962-756-1260	Sequence 1280, Ap	201	28	60.9	234	2	US-09-540-238-2198	Sequence 2198, Ap
129	28	60.9	41	2	US-08-476-376-11	Sequence 11, Appl	202	28	60.9	249	2	US-09-245-281-39	Sequence 39, Appl
130	28	60.9	74	2	US-09-099-041A-28	Sequence 28, Appl	203	28	60.9	249	2	US-09-340-620A-39	Sequence 39, Appl
131	28	60.9	74	2	US-09-245-281-28	Sequence 28, Appl	204	28	60.9	249	2	US-09-865-364-39	Sequence 39, Appl
132	28	60.9	74	2	US-09-207-359B-28	Sequence 28, Appl	205	28	60.9	249	2	US-09-728-721-39	Sequence 39, Appl
133	28	60.9	74	2	US-09-340-620A-28	Sequence 28, Appl	206	28	60.9	250	2	US-09-328-352-503	Sequence 5203, Ap
134	28	60.9	74	2	US-09-865-364-28	Sequence 28, Appl	207	28	60.9	250	2	US-09-748-796A-14566	Sequence 14566, A
135	28	60.9	74	2	US-09-728-721-28	Sequence 28, Appl	208	28	60.9	268	2	US-09-902-540-15938	Sequence 15938, A
136	28	60.9	77	2	US-09-621-976-6684	Sequence 6684, Ap	209	28	60.9	275	2	US-09-902-540-13403	Sequence 13403, A
137	28	60.9	82	1	US-08-436-420-45	Sequence 45, Appl	210	28	60.9	287	2	US-09-489-039A-13403	Sequence 43978, A
138	28	60.9	86	2	US-09-811-162-2	Sequence 2, Appl1	211	28	60.9	301	2	US-09-055-113-1	Sequence 1, Appl1
139	28	60.9	89	2	US-10-449-315-14	Sequence 14, Appl	212	28	60.9	335	2	US-09-570-593-2	Sequence 2, Appl1
140	28	60.9	90	2	US-09-841-879B-11	Sequence 11, Appl	213	28	60.9	335	2	US-09-570-593-1	Sequence 1, Appl1
141	28	60.9	92	2	US-09-388-221B-25	Sequence 25, Appl	214	28	60.9	335	2	US-09-570-593-13	Sequence 13, Appl
142	28	60.9	92	2	US-10-014-269-20	Sequence 20, Appl	215	28	60.9	335	2	US-09-866-356-1	Sequence 1, Appl1
143	28	60.9	92	2	US-10-002-974-20	Sequence 20, Appl	216	28	60.9	347	2	US-09-902-540-10279	Sequence 10279, A
144	28	60.9	100	2	US-08-851-843A-10	Sequence 10, Appl	217	28	60.9	359	1	US-08-483-926A-8	Sequence 8, Appl1
145	28	60.9	100	2	US-08-974-549A-192	Sequence 192, App	218	28	60.9	359	1	US-08-737-046-11	Sequence 11, Appl
146	28	60.9	100	2	US-08-854-050-10	Sequence 10, Appl	219	28	60.9	359	2	US-09-476-917B-1	Sequence 1, Appl1
147	28	60.9	100	2	US-09-430-323-10	Sequence 10, Appl	220	28	60.9	359	2	US-09-476-917-1	Sequence 1, Appl1
148	28	60.9	100	2	US-09-099-041A-10	Sequence 10, Appl	221	28	60.9	359	2	US-08-780-311A-1	Sequence 1, Appl1
149	28	60.9	100	2	US-09-245-281-10	Sequence 10, Appl	222	28	60.9	364	1	US-08-680-726A-56	Sequence 56, Appl
150	28	60.9	100	2	US-09-207-359B-10	Sequence 10, Appl	223	28	60.9	364	2	US-09-092-409-56	Sequence 56, Appl
151	28	60.9	100	2	US-09-340-620A-10	Sequence 10, Appl	224	28	60.9	373	2	US-08-746-883-4	Sequence 4, Appl1
152	28	60.9	100	2	US-09-402-181B-192	Sequence 192, App	225	28	60.9	373	2	US-09-313-177-4	Sequence 4, Appl1
153	28	60.9	100	2	US-09-865-364-10	Sequence 10, Appl	226	28	60.9	374	2	US-09-638-931-2	Sequence 2, Appl1
154	28	60.9	100	2	US-09-921-456-192	Sequence 192, App	227	28	60.9	376	2	US-09-328-352-4299	Sequence 4299, Ap
155	28	60.9	100	2	US-09-766-253-10	Sequence 10, Appl	228	28	60.9	384	2	US-09-902-540-15152	Sequence 15152, A
156	28	60.9	100	2	US-09-728-721-10	Sequence 10, Appl	229	28	60.9	409	2	US-09-207-359B-46	Sequence 46, Appl
157	28	60.9	100	2	US-10-054-295-10	Sequence 10, Appl	230	28	60.9	409	2	US-09-865-364-46	Sequence 46, Appl
158	28	60.9	100	2	US-09-338-486A-10	Sequence 10, Appl	231	28	60.9	436	2	US-09-248-796A-17505	Sequence 17505, A
159	28	60.9	107	1	US-08-399-106A-14	Sequence 14, Appl	232	28	60.9	454	2	US-09-653-755A-4	Sequence 4, Appl1
160	28	60.9	107	1	US-08-433-105A-14	Sequence 14, Appl	233	28	60.9	462	2	US-09-653-755A-6	Sequence 6, Appl1
161	28	60.9	107	1	US-08-434-869A-14	Sequence 14, Appl	234	28	60.9	478	2	US-09-770-916-2	Sequence 2, Appl1
162	28	60.9	110	2	US-09-107-532A-4659	Sequence 4659, Ap	235	28	60.9	479	2	US-09-328-352-5844	Sequence 5844, Ap
163	28	60.9	114	2	US-09-270-767-39458	Sequence 39458, A	236	28	60.9	485	2	US-09-710-279-1346	Sequence 1346, Ap
164	28	60.9	114	2	US-09-270-767-54675	Sequence 54675, A	237	28	60.9	490	2	US-09-245-281-26	Sequence 26, Appl
165	28	60.9	120	2	US-09-770-834-4	Sequence 4, Appl1	238	28	60.9	490	2	US-09-099-041A-26	Sequence 26, Appl
166	28	60.9	121	2	US-09-163-446-4	Sequence 4, Appl1	239	28	60.9	490	2	US-09-207-359B-26	Sequence 26, Appl
167	28	60.9	121	2	US-09-770-834-12	Sequence 12, Appl	240	28	60.9	490	2	US-09-340-620A-26	Sequence 26, Appl
168	28	60.9	121	2	US-09-771-383-1	Sequence 1, Appl1	241	28	60.9	490	2	US-09-865-364-26	Sequence 26, Appl
169	28	60.9	121	2	US-09-771-383-11	Sequence 11, Appl1	242	28	60.9	490	2	US-09-728-721-26	Sequence 26, Appl
170	28	60.9	124	2	US-10-037-417-103	Sequence 103, App	243	28	60.9	491	2	US-09-134-001C-677	Sequence 4677, Ap
171	28	60.9	137	2	US-09-270-767-59385	Sequence 59385, A	244	28	60.9	492	2	US-09-248-796A-17160	Sequence 17160, A
172	28	60.9	138	2	US-09-118-426-2	Sequence 2, Appl1	245	28	60.9	507	2	US-09-540-238-3391	Sequence 3391, Ap
173	28	60.9	159	2	US-09-118-426-1	Sequence 1, Appl1	246	28	60.9	572	2	US-09-197-970B-5	Sequence 5, Appl1

247	28	60.9	572	2	US-09-943-075A-2	Sequence 2, Appl1	320	27	58.7	131	2	US-09-270-767-32899	Sequence 32899, A
248	28	60.9	580	2	US-09-252-991A-27245	Sequence 2745, A	321	27	58.7	138	2	US-09-540-236-2621	Sequence 2621, Ap
249	28	60.9	582	2	US-09-252-991A-25366	Sequence 25366, A	322	27	58.7	141	2	US-08-311-721A-303	Sequence 303, App
250	28	60.9	610	2	US-10-104-047-2672	Sequence 2672, Ap	323	27	58.7	148	1	US-08-858-767-31	Sequence 31, Appl
251	28	60.9	760	2	US-09-370-767-43780	Sequence 43780, A	324	27	58.7	150	2	US-08-863-028-31	Sequence 31, Appl
252	28	60.9	785	1	US-07-841-997A-4	Sequence 4, Appl1	325	27	58.7	148	2	US-09-809-665A-141	Sequence 141, App
253	28	60.9	785	1	US-08-290-301-4	Sequence 4, Appl1	326	27	58.7	172	2	US-09-270-767-48430	Sequence 48430, A
254	28	60.9	785	1	US-09-013-598-4	Sequence 4, Appl1	327	27	58.7	174	2	US-09-861-451A-58	Sequence 58, Appl
255	28	60.9	840	2	US-08-974-549A-190	Sequence 190, App	328	27	58.7	179	2	US-09-861-452A-62	Sequence 62, Appl
256	28	60.9	840	2	US-09-402-181B-190	Sequence 190, App	329	27	58.7	182	2	US-09-328-352-5685	Sequence 5685, Ap
257	28	60.9	840	2	US-09-721-456-190	Sequence 190, App	330	27	58.7	183	2	US-09-270-767-38148	Sequence 38148, A
258	28	60.9	872	2	US-08-851-843A-8	Sequence 8, Appl1	331	27	58.7	207	2	US-09-270-767-32889	Sequence 32889, A
259	28	60.9	872	2	US-08-851-843A-54	Sequence 54, Appl	332	27	58.7	211	2	US-09-328-352-4370	Sequence 4370, Ap
260	28	60.9	872	2	US-08-974-549A-221	Sequence 221, App	333	27	58.7	219	2	US-09-538-092-393	Sequence 393, App
261	28	60.9	872	2	US-08-854-050-8	Sequence 8, Appl1	334	27	58.7	237	2	US-09-134-001C-4213	Sequence 4213, Ap
262	28	60.9	872	2	US-08-854-050-54	Sequence 54, Appl	335	27	58.7	237	2	US-09-710-279-3288	Sequence 3288, Ap
263	28	60.9	872	2	US-09-430-323-8	Sequence 8, Appl1	336	27	58.7	242	2	US-09-602-787A-460	Sequence 460, App
264	28	60.9	872	2	US-09-430-323-54	Sequence 54, Appl	337	27	58.7	242	2	US-08-851-974-3	Sequence 3, Appl1
265	28	60.9	872	2	US-09-402-181B-221	Sequence 221, App	338	27	58.7	248	1	US-09-213-390-3	Sequence 3, Appl1
266	28	60.9	872	2	US-09-721-456-221	Sequence 221, App	339	27	58.7	248	1	US-08-564-164A-4	Sequence 4, Appl1
267	28	60.9	872	2	US-09-766-253-8	Sequence 8, Appl1	340	27	58.7	264	2	US-09-949-016-11337	Sequence 11337, A
268	28	60.9	872	2	US-09-766-253-54	Sequence 54, Appl1	341	27	58.7	274	2	US-09-949-016-11337	Sequence 11337, A
269	28	60.9	872	2	US-10-054-295-8	Sequence 8, Appl1	342	27	58.7	287	2	US-09-605-702B-1774	Sequence 1774, Ap
270	28	60.9	872	2	US-10-054-295-54	Sequence 54, Appl	343	27	58.7	294	2	US-09-711-164-458	Sequence 459, App
271	28	60.9	872	2	US-09-438-486A-8	Sequence 8, Appl1	344	27	58.7	294	2	US-09-583-110-2926	Sequence 2926, Ap
272	28	60.9	902	2	US-09-438-486A-54	Sequence 54, Appl	345	27	58.7	302	2	US-09-328-352-5017	Sequence 5017, A
273	28	60.9	902	2	US-10-104-047-2987	Sequence 2987, Ap	346	27	58.7	302	2	US-09-457-046B-10	Sequence 10, Appl
274	28	60.9	953	2	US-09-099-041A-8	Sequence 8, Appl1	347	27	58.7	302	2	US-09-866-570B-10	Sequence 10, Appl
275	28	60.9	953	2	US-09-245-281-8	Sequence 8, Appl1	348	27	58.7	302	2	US-09-587-789-11	Sequence 11, Appl
276	28	60.9	953	2	US-09-245-281-43	Sequence 43, Appl	349	27	58.7	302	2	US-09-587-789-5	Sequence 5, Appl1
277	28	60.9	953	2	US-09-207-359B-8	Sequence 8, Appl1	350	27	58.7	308	2	US-09-107-433-2732	Sequence 2732, Ap
278	28	60.9	953	2	US-09-207-359B-43	Sequence 43, Appl	351	27	58.7	308	2	US-09-134-001C-4927	Sequence 4927, Ap
279	28	60.9	953	2	US-09-340-620A-8	Sequence 8, Appl1	352	27	58.7	309	2	US-09-248-796A-14939	Sequence 14939, A
280	28	60.9	953	2	US-09-340-620A-43	Sequence 43, Appl	353	27	58.7	312	2	US-09-538-092-256	Sequence 256, App
281	28	60.9	953	2	US-08-865-364-8	Sequence 8, Appl1	354	27	58.7	315	2	US-09-887-789-3	Sequence 3, Appl1
282	28	60.9	953	2	US-08-865-364-43	Sequence 43, Appl	355	27	58.7	315	2	US-09-587-789-9	Sequence 9, Appl1
283	28	60.9	953	2	US-09-728-721-8	Sequence 8, Appl1	356	27	58.7	316	1	US-07-805-567-2	Sequence 2, Appl1
284	28	60.9	953	2	US-09-728-721-43	Sequence 43, Appl	357	27	58.7	316	1	US-09-248-796A-20010	Sequence 20010, A
285	28	60.9	953	2	US-09-949-002-187	Sequence 187, App	358	27	58.7	316	1	US-09-949-016-7531	Sequence 7531, Ap
286	28	60.9	953	2	US-10-183-770A-4	Sequence 4, Appl1	359	27	58.7	338	2	US-08-917-299-4	Sequence 37, Appl
287	28	60.9	953	2	US-09-949-002-524	Sequence 524, App	360	27	58.7	338	2	US-09-422-662-4	Sequence 37, Appl
288	28	60.9	953	2	US-09-207-359B-47	Sequence 47, Appl	361	27	58.7	338	2	US-09-422-662-37	Sequence 37, Appl
289	28	60.9	966	2	US-09-865-364-47	Sequence 47, Appl	362	27	58.7	338	2	US-09-730-763-4	Sequence 4, Appl1
290	28	60.9	1094	1	US-08-680-326-40	Sequence 40, Appl	363	27	58.7	338	2	US-09-429-370-37	Sequence 37, Appl
291	28	60.9	1098	1	US-08-290-301-82	Sequence 82, Appl	364	27	58.7	338	2	US-09-230-485-2	Sequence 2, Appl1
292	28	60.9	1098	2	US-09-013-598-82	Sequence 82, Appl	365	27	58.7	338	2	US-09-489-039A-9069	Sequence 9069, Ap
293	28	60.9	1098	2	US-09-080-855-12	Sequence 12, Appl	366	27	58.7	338	2	US-09-489-039A-9552	Sequence 9552, Ap
294	28	60.9	2466	2	US-09-566-076-12	Sequence 12, Appl	367	27	58.7	352	2	US-09-949-016-7923	Sequence 7923, Ap
295	28	60.9	2466	4	PCT-US94-09943-2	Sequence 2, Appl	368	27	58.7	352	2	US-09-902-540-12881	Sequence 12881, A
296	28	60.9	2485	2	US-09-290-640-46	Sequence 46, Appl	369	27	58.7	361	1	US-08-483-262A-10	Sequence 10, Appl
297	28	60.9	2485	2	US-09-665-615B-46	Sequence 46, Appl	370	27	58.7	364	1	US-08-483-262A-10	Sequence 10, Appl
298	28	60.9	3878	2	US-09-914-259-11	Sequence 11, Appl	371	27	58.7	364	1	US-09-188-452A-423	Sequence 423, App
299	28	60.9	4536	2	US-09-180-422B-27	Sequence 27, Appl	372	27	58.7	364	1	US-09-438-185A-406	Sequence 406, App
300	28	60.9	4536	2	US-09-079-030-1	Sequence 1, Appl1	373	27	58.7	364	1	US-09-543-681A-7432	Sequence 7432, Ap
301	28	60.9	4563	2	US-09-108-006C-1	Sequence 1, Appl1	374	27	58.7	364	1	US-09-543-681A-7432	Sequence 7432, Ap
302	28	60.9	5032	2	US-09-538-092-842	Sequence 842, App	375	27	58.7	364	1	US-09-949-016-11043	Sequence 11043, A
303	28	60.9	5032	2	US-09-538-092-979	Sequence 979, App	376	27	58.7	364	1	US-09-270-767-57412	Sequence 57412, A
304	28	60.9	5037	2	US-09-424-783-4	Sequence 4, Appl1	377	27	58.7	364	1	US-09-248-796A-15500	Sequence 15500, A
305	27.5	59.8	301	2	US-09-270-767-60398	Sequence 60398, A	378	27	58.7	364	1	US-09-248-796A-14420	Sequence 14420, A
306	27.5	59.8	363	2	US-09-270-767-44924	Sequence 44924, A	379	27	58.7	364	1	US-08-644-034A-3	Sequence 3, Appl1
307	27	58.7	59	2	US-09-270-767-36489	Sequence 36489, A	380	27	58.7	364	1	US-09-902-540-13020	Sequence 13020, A
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309	27	58.7	64	2	US-09-270-767-31940	Sequence 31940, A	382	27	58.7	364	1		
310	27	58.7	64	2	US-09-270-767-47157	Sequence 47157, A	383	27	58.7	364	1		
311	27	58.7	72	2	US-09-621-976-6737	Sequence 6737, Ap	384	27	58.7	364	1		
312	27	58.7	75	2	US-09-248-796A-21778	Sequence 21778, A	385	27	58.7	364	1		
313	27	58.7	88	2	US-09-902-540-14746	Sequence 14746, A	386	27	58.7	364	1		
314	27	58.7	104	2	US-10-083-424-28	Sequence 28, Appl	387	27	58.7	364	1		
315	27	58.7	105	2	US-10-083-424-32	Sequence 32, Appl	388	27	58.7	364	1		
316	27	58.7	112	2	US-09-248-796A-25672	Sequence 25672, A	389	27	58.7	364	1		
317	27	58.7	123	2	US-09-248-796A-23998	Sequence 23998, A	390	27	58.7	364	1		
318	27	58.7	124	2	US-08-751-359-14	Sequence 14, Appl	391	27	58.7	364	1		
319	27	58.7	124	2	US-08-907-146-14	Sequence 14, Appl	392	27	58.7	364	1		

393	27	58.7	446	2	US-09-248-796A-14233	Sequence 14233, A	466	27	58.7	1367	1	US-08-601-891-6	Sequence 6, App11	
394	27	58.7	456	2	US-09-248-796A-19432	Sequence 19432, A	467	27	58.7	1367	1	US-08-443-861-2	Sequence 2, App11	
395	27	58.7	457	2	US-09-579-250-4	Sequence 4, App11	468	27	58.7	1367	2	US-09-121-324-6	Sequence 6, App11	
396	27	58.7	457	2	US-09-856-771A-10	Sequence 10, App11	469	27	58.7	1367	2	US-08-193-828B-2	Sequence 2, App11	
397	27	58.7	463	2	US-09-270-767-43524	Sequence 43524, A	470	27	58.7	1367	2	US-09-872-138B-6	Sequence 6, App11	
398	27	58.7	465	2	US-09-252-991A-17635	Sequence 17635, A	471	27	58.7	1367	2	US-09-766-678-2	Sequence 2, App11	
399	27	58.7	471	2	US-10-104-047-3482	Sequence 3482, Ap	472	27	58.7	1367	2	US-09-919-408A-6	Sequence 6, App11	
400	27	58.7	477	2	US-09-92-709A-345	Sequence 325, App	473	27	58.7	1367	4	PCT-US92-02750-8	Sequence 8, App11	
401	27	58.7	480	2	US-09-328-352-6949	Sequence 6949, Ap	474	27	58.7	1367	4	PCT-US92-05401-6	Sequence 8, App11	
402	27	58.7	499	2	US-09-561-763-2	Sequence 2, App11	475	27	58.7	1367	4	PCT-US92-09893-6	Sequence 6, App11	
403	27	58.7	499	2	US-09-431-367B-2	Sequence 2, App11	476	27	58.7	1368	2	US-09-181-706-2	Sequence 2, App11	
404	27	58.7	499	2	US-09-248-796A-20418	Sequence 20418, A	477	27	58.7	1368	2	US-09-458-791-2	Sequence 2, App11	
405	27	58.7	518	2	US-09-252-991A-19162	Sequence 19162, A	478	27	58.7	1368	2	US-09-459-065-2	Sequence 2, App11	
406	27	58.7	536	2	US-09-538-092-992	Sequence 992, App	479	27	58.7	1368	2	US-09-459-065-2	Sequence 2, App11	
407	27	58.7	558	2	US-08-836-567-6	Sequence 6, App11	480	27	58.7	1651	2	US-09-949-016-10643	Sequence 10643, Ap	
408	27	58.7	558	2	US-09-606-304-6	Sequence 6, App11	481	27	58.7	2789	2	US-09-949-016-8208	Sequence 70, App1	
409	27	58.7	571	2	US-10-104-047-3779	Sequence 3779, Ap	482	27	58.7	4861	2	US-09-919-497-70	Sequence 70, App1	
410	27	58.7	588	2	US-09-949-016-11626	Sequence 11626, A	483	27	58.7	4866	2	US-09-424-783-2	Sequence 2, App11	
411	27	58.7	604	2	US-09-248-796A-14489	Sequence 14489, A	484	27	58.7	4872	2	US-09-424-783-3	Sequence 3, App11	
412	27	58.7	605	2	US-09-448-796A-15241	Sequence 15241, A	485	27	58.7	12	1	US-08-025-321C-3	Sequence 3, App11	
413	27	58.7	619	2	US-09-538-092-94	Sequence 94, App1	486	27	58.7	12	1	US-08-025-321C-4	Sequence 4, App11	
414	27	58.7	624	1	US-08-642-406A-22	Sequence 22, App1	487	27	58.7	13	1	US-08-488-252-23	Sequence 23, App1	
415	27	58.7	624	2	US-09-199-534-22	Sequence 22, App1	488	27	58.7	15	1	US-08-245-853-2	Sequence 2, App11	
416	27	58.7	624	2	US-09-199-534-22	Sequence 22, App1	489	27	58.7	15	1	US-08-573-675-2	Sequence 2, App11	
417	27	58.7	624	2	US-09-491-322-22	Sequence 22, App1	490	27	58.7	15	6	5470825-2	Patent No. 5470825	
418	27	58.7	649	2	US-09-134-000C-5302	Sequence 5302, Ap	491	27	58.7	21	1	US-08-246-242-1	Sequence 1, App11	
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708	26	56.5	520	1	US-08-530-146-14	Sequence 14, Appl	781	26	56.5	685	2	US-09-949-016-6320	Sequence 6320, Ap
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715	26	56.5	537	1	US-08-604-333-4	Sequence 4, Appl1	788	26	56.5	713	2	US-08-753-247-9	Sequence 9, Appl1
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720	26	56.5	537	2	US-09-621-502-8	Sequence 8, Appl1	793	26	56.5	719	2	US-08-753-247-12	Sequence 12, Appl
721	26	56.5	538	2	US-09-438-185A-198	Sequence 198, App	794	26	56.5	719	2	US-09-285-040-3	Sequence 3, Appl1
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726	26	56.5	560	2	US-08-594-031-90	Sequence 90, Appl	799	26	56.5	750	2	US-09-248-796A-20376	Sequence 20376, A
727	26	56.5	560	2	US-09-643-597-225	Sequence 225, App	800	26	56.5	767	1	US-08-446-777-6	Sequence 6, Appl1
728	26	56.5	560	2	US-09-480-884A-225	Sequence 225, App	801	26	56.5	767	1	US-08-446-777-8	Sequence 8, Appl1
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735	26	56.5	560	2	US-10-007-700-225	Sequence 225, Appl	808	26	56.5	794	1	US-08-745-880-2	Sequence 2, Appl1
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737	26	56.5	560	5	US-09-977-371-90	Sequence 90, Appl	810	26	56.5	794	1	US-08-480-382-2	Sequence 2, Appl1
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748	26	56.5	590	2	US-10-158-895-15	Sequence 15, Appl	821	26	56.5	836	2	US-10-281-867-2	Sequence 2, Appl1
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755	26	56.5	627	2	US-09-949-016-9790	Sequence 9790, Ap	828	26	56.5	861	1	US-08-482-847-14	Sequence 14, Appl
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850	26	56.5	978	2	US-10-270-878-20	Sequence 20, Appl	923	25	54.3	71	2	US-09-759-143-555	Sequence 555, App
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859	26	56.5	1242	1	US-08-680-326-33	Sequence 33, Appl	932	25	54.3	83	2	US-09-471-276-1470	Sequence 470, Ap
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863	26	56.5	1278	2	US-09-462-136-2	Sequence 2, Appl	936	25	54.3	90	2	US-09-858-664A-12	Sequence 12, Appl
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875	26	56.5	1413	2	US-09-578-063-13	Sequence 13, Appl	948	25	54.3	96	1	US-09-015-668-21	Sequence 21, Appl
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877	26	56.5	1435	2	US-09-949-016-9943	Sequence 9943, Ap	950	25	54.3	96	2	US-09-397-186-19	Sequence 19, Appl
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880	26	56.5	1453	2	US-09-578-063-11	Sequence 11, Appl	953	25	54.3	97	2	US-08-881-037-66	Sequence 16, Appl
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882	26	56.5	1581	2	US-09-866-108A-15754	Sequence 15754, A	955	25	54.3	98	2	US-09-315-574-15	Sequence 35, Appl
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885	26	56.5	1967	2	US-09-849-602-16	Sequence 16, Appl	958	25	54.3	98	2	US-09-293-533-5	Sequence 5, Appl
886	26	56.5	2465	1	US-08-596-291-3	Sequence 3, Appl	959	25	54.3	98	2	US-09-471-276-1070	Sequence 1070, Ap
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894	25	55.4	941	2	US-10-125-772-8	Sequence 8, Appl	967	25	54.3	102	2	US-09-196-522-174	Sequence 71, Appl
895	25	55.4	941	2	US-10-125-772-10	Sequence 10, Appl	968	25	54.3	103	1	US-08-273-146-71	Sequence 49, Appl
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996 25 54.3 111 2 US-08-849-303-26 Sequence 26, Appl  
997 25 54.3 111 2 US-09-203-768A-8 Sequence 8, Appl  
998 25 54.3 112 2 US-09-189-129-3 Sequence 3, Appl  
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## ALIGNMENTS

RESULT 1  
US-08-159-339A-1176  
Sequence 1176, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lawyer  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1176:

SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1176  
Query Match 100.0%; Score 46; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.022;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SIQDIETIC 9  
DB 3 SIQDIETIC 11  
RESULT 2  
US-08-466-285-2  
Sequence 2, Application US/08466285  
Patent No. 5753233  
GENERAL INFORMATION:  
APPLICANT: Bleul, Conrad  
APPLICANT: Giesmann, Lutz  
APPLICANT: Muller, Martin  
TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
STREET: 1300 I Street, N.W., Suite 700  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC Compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Manspeizer, David A.  
REGISTRATION NUMBER: 37,540  
REFERENCE/DOCKET NUMBER: 05552.1075-03000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single

TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-2

Query Match 100.0%; Score 46; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.048;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SL0DIEITC 9  
Db 19 SL0DIEITC 27

RESULT 3  
US-08-164-768-2  
Sequence 2, Application US/08164768  
Patent No. 6322794  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISSMANN, Lutz  
APPLICANT: MULLER, Martin  
TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PINNEGAN, HENDERSON, FARABOW, GARRETT &  
ADDRESSEE: DUNNER, L.L.P.  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentln Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Forman, David S.  
REGISTRATION NUMBER: 33,694  
REFERENCE/DOCKET NUMBER: 05552.1075-02000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-164-768-2

Query Match 100.0%; Score 46; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.048;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SL0DIEITC 9  
Db 19 SL0DIEITC 27

RESULT 4  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.

APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-7000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 46; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.26;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SL0DIEITC 9  
Db 24 SL0DIEITC 32

RESULT 5  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentln Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.

REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 46; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.26;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 24 SLQDIETC 32

RESULT 6  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5713054  
GENERAL INFORMATION:  
APPLICANT: Bourmell, Michael E.  
APPLICANT: Ingli, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
the open reading frame."  
US-08-117-083-14

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SLQDIETC 9  
DB 25 SLQDIETC 33

RESULT 7  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
TYPE: PRT  
LENGTH: 278  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 46; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.47;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 135 SLQDIETC 143

RESULT 8  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
TYPE: PRT  
LENGTH: 383  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 46; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.66;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9

Db 135 SL0DIEITC 143

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RESULT 9
US-08-159-339A-86
; Sequence 86, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-86

Query Match 91.3%; Score 42; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Oy 2 LODIEITC 9  
1 LODIEITC 8

```
RESULT 10
US-08-809-999D-17
; Sequence 17, Application US/08809999D
; Patent No. 6013765
; GENERAL INFORMATION:
; APPLICANT: Coulie, Pierre; Ikeda, Hideyuki;
; APPLICANT: Boon-Falleur, Thierry
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules
```

```
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGE and
; TITLE OF INVENTION: Uses Thereof
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski, L.L.P.
; STREET: 666 Fifth Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,999D
; FILING DATE: 9-April-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/316,231
; FILING DATE: 30-September-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 6013765man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5386.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 752-5958
; TELEFAX: (212) 752-5958
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 509 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: DAGE amino acid sequence
; NAME/KEY: corresponding to SEQ ID NO:2
US-08-809-999D-17
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```
Query Match 82.6%; Score 38; DB 2; Length 509;
Best Local Similarity 55.6%; Pred. No. 30;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

Oy 1 SL0DIEITC 9  
Db 234 SIEDLEVTIC 242

```
RESULT 11
US-09-069-637-17
; Sequence 17, Application US/09069637
; Patent No. 6022692
; GENERAL INFORMATION:
; APPLICANT: Coulie, Pierre; Ikeda, Hideyuki;
; APPLICANT: Boon-Falleur, Thierry
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGE and Uses T
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/069,637
```

FILED DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/809,999  
FILING DATE: 9-April-1997  
APPLICATION NUMBER: 08/316,231  
FILING DATE: 30-September-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Hanson, No. 6022692man D.  
REGISTRATION NUMBER: 30,946  
REFERENCE/DOCKET NUMBER: LUD 5386.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 688-8200  
TELEFAX: (212) 838-3884  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGS amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-09-069-637-17

Query Match 82.6%; Score 38; DB 2; Length 509;  
Best Local Similarity 55.6%; Pred. No. 30;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETTC 9  
DB 234 SIEDLEVT 242

RESULT 12  
US-09-322-360-17  
Sequence 17, Application US/09322360  
Patent No. 6297050  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki;  
APPLICANT: Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGS and  
TITLE OF INVENTION: Uses thereof  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fulbright & Jaworski, L.L.P.  
STREET: 666 Fifth Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/322,360  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/809,999  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hanson, No. 6297050man D.  
REGISTRATION NUMBER: 30,946  
REFERENCE/DOCKET NUMBER: LUD 5386.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 318-3100  
TELEFAX: (212) 752-5958  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:

LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGS amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-09-322-360-17

Query Match 82.6%; Score 38; DB 2; Length 509;  
Best Local Similarity 55.6%; Pred. No. 30;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETTC 9  
DB 234 SIEDLEVT 242

RESULT 13  
US-09-131-831B-17  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki; Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGS and  
TITLE OF INVENTION: Uses thereof  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
STREET: 666 Fifth Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/131,831B  
FILING DATE: 11-Aug-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/809,999  
FILING DATE: 9-April-1997  
APPLICATION NUMBER: 08/316,231  
FILING DATE: 30-September-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Hanson, No. 6339149man D.  
REGISTRATION NUMBER: 30,946  
REFERENCE/DOCKET NUMBER: LUD 5386.3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 318-3100  
TELEFAX: (212) 318-3400  
SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
US-09-131-831B-17

Query Match 82.6%; Score 38; DB 2; Length 509;  
Best Local Similarity 55.6%; Pred. No. 30;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETTC 9  
DB 234 SIEDLEVT 242

RESULT 14  
US-09-949-016-11233  
Sequence 11233, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.



```
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11233
; LENGTH: 528
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-11233

Query Match      82.6%; Score 38; DB 2; Length 528;
Best Local Similarity 55.6%; Pred. No. 31;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      |||:|:|
Db      253 SIEDLEVTCT 261

RESULT 15
US-09-252-991A-28397
; Sequence 28397, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: MARC J. RUBENFIELD et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28397
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-28397

Query Match      78.3%; Score 36; DB 2; Length 127;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LODIEITC 9
      |||:|:|
Db      32 LNDIEVTCT 39

RESULT 16
US-09-248-796A-19040
; Sequence 19040, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
```

```
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19040
; LENGTH: 724
; TYPE: PRT
; ORGANISM: Candida albicans
; US-09-248-796A-19040

Query Match      76.1%; Score 35; DB 2; Length 724;
Best Local Similarity 85.7%; Pred. No. 1,6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 ODIEITC 9
      |||:|:|
Db      488 EDIEITCT 494

RESULT 17
US-09-720-655B-1
; Sequence 1, Application US/09720655B
; Patent No. 6723521
; GENERAL INFORMATION:
; APPLICANT: YOSHIMOTO, MAKOTO
; APPLICANT: YAZAKI, MADOKA
; APPLICANT: MATSUMOTO, KAYO
; APPLICANT: TAKAYAMA, KIYOSHI
; APPLICANT: TSURITANI, KATSUKI
; TITLE OF INVENTION: SUGAR TRANSPORTER
; FILE REFERENCE: ASA-C034
; CURRENT APPLICATION NUMBER: US/09/720,655B
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: JP 10/187235
; PRIOR FILING DATE: 1998-07-02
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-720-655B-1

Query Match      73.9%; Score 34; DB 2; Length 519;
Best Local Similarity 66.7%; Pred. No. 1,7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      |||:|:|
Db      277 AL0DLENTCT 285

RESULT 18
US-08-964-127-2
; Sequence 2, Application US/08964127
; Patent No. 6277565
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
```

FILING DATE: 06-NOV-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 520 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-08-964-127-2

Query Match 73.9%; Score 34; DB 2; Length 520;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|||||  
Db 277 ALQDLNTC 285

RESULT 19  
US-09-496-692-2  
Sequence 2, Application US/09496692  
Patent No. 6313271  
GENERAL INFORMATION:  
APPLICANT: Grandearl, Andrew David John  
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
TITLE OF INVENTION: MOLECULES  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/496,692  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/964,127  
FILING DATE: 06-NOV-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 520 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-09-496-692-2

Query Match 73.9%; Score 34; DB 2; Length 520;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|||||  
Db 277 ALQDLNTC 285

RESULT 20  
US-10-000-273-2  
Sequence 2, Application US/10000273  
Patent No. 6573057  
GENERAL INFORMATION:  
APPLICANT: Grandearl, Andrew David John  
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
MOLECULES  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/000,273  
FILING DATE: 02-NOV-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/964,127  
FILING DATE: 06-NOV-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 520 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-000-273-2

Query Match 73.9%; Score 34; DB 2; Length 520;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
:|||||  
Db 277 ALQDLNTC 285

RESULT 21  
US-08-323-170B-2  
Sequence 2, Application US/08323170B  
Patent No. 5733772  
GENERAL INFORMATION:  
APPLICANT: Williamson, Kim C.  
APPLICANT: Kaslow, David C.  
TITLE OF INVENTION: Cloning and Expression of Plasmodium  
TITLE OF INVENTION: falciparum Transmission-Blocking Target Antigen, Pf230

NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/323,170B  
FILING DATE: 13-OCT-1994  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/010,409  
FILING DATE: 29-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Quine, Jonathan A.  
REGISTRATION NUMBER: P-41,261  
REFERENCE/DOCKET NUMBER: 015280-113100US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3135 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-323-170B-2

Query Match 73.9%; Score 34; DB 1; Length 3135;  
Best Local Similarity 62.5%; Pred. No. 1.2e+03;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDIETC 9  
DB 1242 LBDVETSC 1249

RESULT 22  
US-08-954-441-2  
Sequence 2, Application US/08954441  
Patent No. 6316000  
GENERAL INFORMATION:  
APPLICANT: Williamson, Kim C.  
APPLICANT: Kaslow, David C.  
TITLE OF INVENTION: Cloning and Expression of Plasmodium  
TITLE OF INVENTION: falciparum Transmission-Blocking Target Antigen, Pf230  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/954,441  
FILING DATE: 20-OCT-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/323,170  
FILING DATE: 13-OCT-1994

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/010,409  
FILING DATE: 29-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Einhorn, Gregory P.  
REGISTRATION NUMBER: 38,440  
REFERENCE/DOCKET NUMBER: 015280-113110US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3135 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-954-441-2

Query Match 73.9%; Score 34; DB 2; Length 3135;  
Best Local Similarity 62.5%; Pred. No. 1.2e+03;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDIETC 9  
DB 1242 LBDVETSC 1249

RESULT 23  
US-09-328-352-7626  
Sequence 7626, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 7626  
LENGTH: 286  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-7626

Query Match 71.7%; Score 33; DB 2; Length 286;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 254 SLQDIALVC 262

RESULT 24  
US-09-949-016-10846  
Sequence 10846, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10846  
LENGTH: 839  
TYPE: PRT  
ORGANISM: Human  
US-09-943-016-10846

Query Match 71.7%; Score 33; DB 2; Length 839;  
Best Local Similarity 75.0%; Pred. No. 4.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LDIETC 9  
DB 206 LDIETC 213

RESULT 25  
US-08-912-129A-61  
Sequence 61, Application US/08912129A  
Patent No. 5922533

GENERAL INFORMATION:  
APPLICANT: VALLARI, AMADRUZELA S.  
APPLICANT: HACKETT, JOHN JR.  
APPLICANT: HICKMAN, ROBERT K.  
APPLICANT: VARITEK, VINCENT A. JR.  
APPLICANT: NECKLAMS, ELIZABETH A.  
APPLICANT: GOLDEN, ALAN M.  
APPLICANT: BRENNAN, CATHERINE A.  
APPLICANT: DEVARE, SUSHIL G.  
TITLE OF INVENTION: RAPID ASSAY FOR SIMULTANEOUS DETECTION AND DIFFERENTIATION  
NUMBER OF SEQUENCES: 89  
CORRESPONDENCE ADDRESS:  
ADDRESS: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette, 1.44 MB  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: MS-DOS (Windows 95)  
SOFTWARE: Microsoft Word (ASCII format output)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/912,129A  
FILING DATE: 15-AUG-1997  
CLASSIFICATION: 436  
PRIOR APPLICATION NUMBER:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Danckers, Andreas M.  
REGISTRATION NUMBER: 32,652  
REFERENCE/DOCKET NUMBER: 6109.US.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847-937-9803  
TELEFAX: 847-938-2623  
TELEX:

INFORMATION FOR SEQ ID NO: 61:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 873 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-08-912-129A-61

Query Match 71.7%; Score 33; DB 1; Length 873;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 DIETC 9  
DB 293 DIETC 298

RESULT 26  
US-08-911-824-61  
Sequence 61, Application US/08911824  
Patent No. 6846905

GENERAL INFORMATION:  
APPLICANT: Abbott Laboratories  
APPLICANT: Hackett, John R., Jr.  
APPLICANT: Yamaguchi, Julie  
APPLICANT: Golden, Alan M.  
APPLICANT: Brennan, Catherine A.  
APPLICANT: Hickman, Robert K.  
APPLICANT: Devare, Sushil G.  
TITLE OF INVENTION: NOVEL ANTIGEN CONSTRUCTS USEFUL IN THE  
TITLE OF INVENTION: DETECTION AND DIFFERENTIATION OF ANTIBODIES TO HIV  
FILE REFERENCE: 6165.US.01  
CURRENT APPLICATION NUMBER: US/08/911,824  
CURRENT FILING DATE: 1997-08-15  
NUMBER OF SEQ ID NOS: 121  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 61  
LENGTH: 873  
TYPE: PRT  
ORGANISM: Human Immunodeficiency Virus  
FEATURE:  
OTHER INFORMATION: HIV-1 Group O isolate HAM112  
US-08-911-824-61

Query Match 71.7%; Score 33; DB 2; Length 873;  
Best Local Similarity 100.0%; Pred. No. 4.6e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 DIETC 9  
DB 293 DIETC 298

RESULT 27  
US-09-270-767-61394  
Sequence 61394, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 61394  
LENGTH: 53  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-61394

Query Match 69.6%; Score 32; DB 2; Length 53;  
Best Local Similarity 75.0%; Pred. No. 37;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LDIETC 9  
DB 7 LDIETC 14

RESULT 28  
US-09-270-767-45862  
Sequence 45862, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094

```

; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 45862
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-45862

Query Match
Best Local Similarity 69.6%; Score 32; DB 2; Length 303;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LQDIBITC 9
Db 257 LQDIBITC 264

RESULT 29
US-09-270-767-46012
; Sequence 46012, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 46012
; LENGTH: 402
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-46012

Query Match
Best Local Similarity 69.6%; Score 32; DB 2; Length 402;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LQDIBITC 9
Db 132 LQDIBITC 139

RESULT 30
US-09-543-681A-6927
; Sequence 6927, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 6927
; LENGTH: 873
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-6927

Query Match
Best Local Similarity 69.6%; Score 32; DB 2; Length 873;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9
Db 756 SLQDIBITC 764

; CURRENT APPLICATION NUMBER: US/09489039A
; CURRENT FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 8230
; LENGTH: 126
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-8230

Query Match
Best Local Similarity 67.4%; Score 31; DB 2; Length 126;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9
Db 76 ALSDIBITC 84

RESULT 31
US-09-543-681A-4522
; Sequence 4522, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4522
; LENGTH: 123
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-4522

Query Match
Best Local Similarity 67.4%; Score 31; DB 2; Length 123;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9
Db 22 SLQDIBITC 30

RESULT 32
US-09-489-039A-8230
; Sequence 8230, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 8230
; LENGTH: 126
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-8230

Query Match
Best Local Similarity 67.4%; Score 31; DB 2; Length 126;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIBITC 9
Db 76 ALSDIBITC 84

RESULT 33
US-09-134-001C-4766
; Sequence 4766, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
```

;; PRIOR APPLICATION NUMBER: US 60/055,779  
;; PRIOR FILING DATE: 1997-08-14  
;; NUMBER OF SEQ ID NOS: 5674  
;; SEQ ID NO 4766  
;; LENGTH: 205  
;; TYPE: PRT  
;; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4766

Query Match 67.4%; Score 31; DB 2; Length 205;  
Best Local Similarity 62.5%; Pred. No. 2.4e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 192 LEDIETC 199

RESULT 34  
US-09-519-232-74  
; Sequence 74, Application US/09519232  
; Patent No. 6528702  
; GENERAL INFORMATION:

;; APPLICANT: Salmeron, John  
;; APPLICANT: Weislo, Laura  
;; APPLICANT: Willits, Michael  
;; APPLICANT: Mengiste, Tesfaye  
;; TITLE OF INVENTION: NOVEL PLANT GENES AND USES THEREOF  
;; FILE REFERENCE: S-30857A/RFP2095  
;; CURRENT APPLICATION NUMBER: US/09/519,232  
;; CURRENT FILING DATE: 2000-03-06  
;; NUMBER OF SEQ ID NOS: 74  
;; SOFTWARE: PatentIn Ver. 2.1  
;; SEQ ID NO 74  
;; LENGTH: 369  
;; TYPE: PRT  
;; ORGANISM: Nicotiana tabacum  
US-09-519-232-74

Query Match 67.4%; Score 31; DB 2; Length 369;  
Best Local Similarity 83.3%; Pred. No. 4.5e+02;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 DIEITC 9  
Db 227 DIEITC 232

RESULT 35  
US-09-248-796A-17389  
; Sequence 17389, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
;; APPLICANT: Keith Weinstein et al  
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
;; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
;; FILE REFERENCE: 107196.132  
;; CURRENT APPLICATION NUMBER: US/09/248,796A  
;; CURRENT FILING DATE: 1999-02-12  
;; PRIOR APPLICATION NUMBER: US 60/074,725  
;; PRIOR FILING DATE: 1998-02-13  
;; PRIOR APPLICATION NUMBER: US 60/096,409  
;; PRIOR FILING DATE: 1998-08-13  
;; NUMBER OF SEQ ID NOS: 28208  
;; SEQ ID NO 17389  
;; LENGTH: 592  
;; TYPE: PRT  
;; ORGANISM: Candida albicans  
US-09-248-796A-17389

Query Match 67.4%; Score 31; DB 2; Length 592;  
Best Local Similarity 75.0%; Pred. No. 7.4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SIQDIEIT 8  
Db 475 SIQDIEIT 482

RESULT 36  
US-09-270-767-41626  
; Sequence 41626, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
;; APPLICANT: Homburger et al.  
;; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
;; FILE REFERENCE: File Reference: 7326-094  
;; CURRENT APPLICATION NUMBER: US/09/270,767  
;; CURRENT FILING DATE: 1999-03-17  
;; NUMBER OF SEQ ID NOS: 62517  
;; SOFTWARE: PatentIn Ver. 2.0  
;; SEQ ID NO 41626  
;; LENGTH: 733  
;; TYPE: PRT  
;; ORGANISM: Drosophila melanogaster  
;; FEATURE:  
;; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-41626

Query Match 67.4%; Score 31; DB 2; Length 733;  
Best Local Similarity 62.5%; Pred. No. 9.3e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SIQDIEIT 8  
Db 455 SIQDIEIT 462

RESULT 37  
US-09-248-796A-14387  
; Sequence 14387, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
;; APPLICANT: Keith Weinstein et al  
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
;; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
;; FILE REFERENCE: 107196.132  
;; CURRENT APPLICATION NUMBER: US/09/248,796A  
;; CURRENT FILING DATE: 1999-02-12  
;; PRIOR APPLICATION NUMBER: US 60/074,725  
;; PRIOR FILING DATE: 1998-02-13  
;; PRIOR APPLICATION NUMBER: US 60/096,409  
;; PRIOR FILING DATE: 1998-08-13  
;; NUMBER OF SEQ ID NOS: 28208  
;; SEQ ID NO 14387  
;; LENGTH: 826  
;; TYPE: PRT  
;; ORGANISM: Candida albicans  
US-09-248-796A-14387

Query Match 67.4%; Score 31; DB 2; Length 826;  
Best Local Similarity 62.5%; Pred. No. 1e+03;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 659 LODIETC 666

RESULT 38  
US-09-585-858-19  
; Sequence 19, Application US/09585858  
; Patent No. 6492161  
; GENERAL INFORMATION:  
;; APPLICANT: Sigridur Hjorleifsdottir  
;; APPLICANT: Gudmundur O. Hreggvidsson

```

1  APPLICANT: Olafur H. Fridjonsson
2  APPLICANT: Arthor Aeyarsson
3  APPLICANT: Jakob K. Kristjansson
4  TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
5  TITLE OF INVENTION: Host Organism
6  FILE REFERENCE: 279.1001-001
7  CURRENT APPLICATION NUMBER: US/09/585,858
8  CURRENT FILING DATE: 2000-12-18
9  PRIOR APPLICATION NUMBER: 60/137,120
10 PRIOR FILING DATE: 1999-06-02
11 NUMBER OF SEQ ID NOS: 73
12 SOFTWARE: FastSeq for Windows Version 4.0
13 SEQ ID NO 19
14 LENGTH: 852
15 TYPE: PRT
16 ORGANISM: Varicella-zoster virus (strain Dumas)
17 OS-09-585-858-19

```

Query Match	67.4%	Score 31	DB 2	Length 852
Best Local Similarity	55.6%	Pred. No. 1.1e+03		
Matches 5, Conservative		2, Mismatches	2, Indels	0, Gaps

QY	1	SLQDIEITC	9
	:	:	
Db	50	TLSDVEIDC	58

```

RESULT 39
US-10-270-878-19
/ Sequence 19, Application US/10270878
/ Patent No. 6818425
/ GENERAL INFORMATION:
/ APPLICANT: Sigridur Hjorleifsdottir
/ APPLICANT: Gudmundur O. Hreggvidsson
/ APPLICANT: Olafur H. Fridjonsson
/ APPLICANT: Anchor Aevargsson
/ APPLICANT: Jakob K. Kristjansson
/ TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
/ TITLE OF INVENTION: Host Organism
/ FILE REFERENCE: 2739.1001-001
/ CURRENT APPLICATION NUMBER: US/10/270, 878
/ CURRENT FILING DATE: 2002-10-11
/ PRIOR APPLICATION NUMBER: US/09/565,858
/ PRIOR FILING DATE: 2000-12-18
/ NUMBER OF SEQ ID NOS: 73
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO: 19
/ LENGTH: 852
/ TYPE: PRT
/ ORGANISM: Varicella-zoster virus (strain Dumas)
US-10-270-878-19

```

Query Match	67.4%;	Score 31;	DB 2;	Length 852;
Best Similarity	55.6%;	Pred. No. 1.1e+03;		
Best Local	5;	Conservative	2;	Indels 0;
Matches				Gaps 0

```
QY      1 SLQDIEITC 9
Db      50 TLSQDVEIDC 58
```

```

RESULT 40
US-08-680-326-35
; Sequence 35, Application US/08680326
; Patent No. 5925733
;
; GENERAL INFORMATION:
;
; APPLICANT: ROSE, TIMOTHY M.
;
; APPLICANT: BOSCH, MARINX
;
; APPLICANT: STRAND, KURT
;
; APPLICANT: TODARO, GEORGE J.
;
; TITLE OF INVENTION: DNA POLYMERASE OF GAMMA HERPES VIRUSES
;
; TITLE OF INVENTION: ASSOCIATED WITH KAPOSI'S SARCOMA AND RETROPERITONEAL
;
; TITLE OF INVENTION: FIBROMATOSIS

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Query Match	67.4%	Score 31;	DB 1;	Length 1194;
Best Local Similarity	55.6%	Pred. No. 1.E+03;		
Matches 5; Conservative	2;	Mismatches	2;	Indels 0; Gaps 0;

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QY      1 SLQDIEITC 9
          :| | :| | |
Db      318 TLSQDVEIDC 326
```

```

RESULT 41
US-09-424-783-5
? Sequence 5, Application US/09424783
? Patent No. 6780608
? GENERAL INFORMATION:
? APPLICANT: Hakamata, Yasuhiro
? APPLICANT: Nishimura, Seiichiro
? APPLICANT: Barsomian, Edward Leon
? TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein
? TITLE OF INVENTION: and DNA Molecules Coding Therefor
? FILE REFERENCE: 0652.200000
? CURRENT APPLICATION NUMBER: US/09/424,783
? CURRENT FILING DATE: 1999-12-01
? PRIOR APPLICATION NUMBER: PCT/EP98/02926
? PRIOR FILING DATE: 1998-05-18
? PRIOR APPLICATION NUMBER: DE 197 22 317.6
? PRIOR FILING DATE: 1997-05-28
? NUMBER OF SEQ ID NOS: 11
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 5
? LENGTH: 4968
? TYPE: PRT
? ORGANISM: Oryctolagus cuniculus
US-09-424-783-5

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Query Match	67.4%	Score 31	DB 2	Length 4968
Best Local Similarity	75.0%	Pred. NO. 6.9e+03		
Matches	6	Conservative	0	Mismatches 2
				Indels 0
				Gaps 0
QY	2	10DIEITC	9	

QY 2 LQDIEITC 9

Db 3830 LODDEFTC 3837

## RESULT 42

US-09-051-529-1  
; Sequence 1, Application US/09051529A  
; Patent No. 6232089  
; GENERAL INFORMATION:  
; APPLICANT: BUCKLE, Derek Richard  
; APPLICANT: CHRISTIE, Gary  
; APPLICANT: MAROLEWSKI, Ariane Elizabeth  
; APPLICANT: MAYER, Ruth Judik  
; APPLICANT: SMITH, David Glynn  
; TITLE OF INVENTION: CD23 Processing Enzyme Preparation  
; FILE REFERENCE: P50386-2  
; CURRENT APPLICATION NUMBER: US/09/051,529A  
; EARLIER FILING DATE: 1998-08-21  
; EARLIER APPLICATION NUMBER: 60/013,427  
; EARLIER FILING DATE: 1996-03-14  
; EARLIER APPLICATION NUMBER: 60/005,316  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human  
US-09-051-529-1

Query Match 65.2%; Score 30; DB 2; Length 10;  
Best Local Similarity 57.1%; Pred. No. 15;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Oy 3 ODIRITC 9

Db 4 ODLEISC 10

## RESULT 43

US-09-949-016-6831  
; Sequence 6831, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: C1001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 6831  
; LENGTH: 281  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-6831

Query Match 65.2%; Score 30; DB 2; Length 281;  
Best Local Similarity 62.5%; Pred. No. 5.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 2 LODIBITC 9

Db 230 LRDIELIC 237

## RESULT 44

US-08-964-127-6  
; Sequence 6, Application US/08964127  
; Patent No. 6277565  
; GENERAL INFORMATION:  
; APPLICANT: Grandearl, Andrew David John  
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
; TITLE OF INVENTION: MOLECULES  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Fish & Richardson P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: FASTSEQ for Windows Version 2.0b  
; APPLICATION DATA:  
; FILING DATE: 06-NOV-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Crews, Ph.D., L. Lee  
; REGISTRATION NUMBER: P-43,567  
; REFERENCE/DOCKET NUMBER: 07334/038001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617/542-5070  
; TELEFAX: 617/542-8906  
; TELEX: 200154  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 322 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: Internal  
US-08-964-127-6

Query Match 65.2%; Score 30; DB 2; Length 322;  
Best Local Similarity 55.6%; Pred. No. 6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Oy 1 SHODIENTC 9

Db 79 ALQEDLENTC 87

## RESULT 45

US-09-496-692-6  
; Sequence 6, Application US/09496692  
; Patent No. 6313271  
; GENERAL INFORMATION:  
; APPLICANT: Grandearl, Andrew David John  
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
; TITLE OF INVENTION: MOLECULES  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Fish & Richardson P.C.  
; STREET: 225 Franklin Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110-2804  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: FASTSEQ for Windows Version 2.0b



CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/496,692  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/964,127  
FILING DATE: 06-NOV-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 322 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
US-09-496-692-6

Query Match 65.2%; Score 30; DB 2; Length 322;  
Best Local Similarity 55.6%; Pred. No. 6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLDDIETTC 9  
DB 79 ALQLENTTC 87

RESULT 46  
US-10-000-273-6  
Sequence 6, Application US/10000273  
Patent No. 6573057  
GENERAL INFORMATION:  
APPLICANT: Grandearl, Andrew David John  
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE  
MOLECULES  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: FastSeq for Windows Version 2.0b  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/000,273  
FILING DATE: 02-NOV-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/964,127  
FILING DATE: 06-NOV-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Crews, Ph.D., L. Lee  
REGISTRATION NUMBER: P-43,567  
REFERENCE/DOCKET NUMBER: 07334/038001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 322 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

FRAGMENT TYPE: internal  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-10-000-273-6

Query Match 65.2%; Score 30; DB 2; Length 322;  
Best Local Similarity 55.6%; Pred. No. 6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLDDIETTC 9  
DB 79 ALQLENTTC 87

RESULT 47  
US-09-949-016-7870  
Sequence 7870, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
PRIOR FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 7870  
LENGTH: 324  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-7870

Query Match 65.2%; Score 30; DB 2; Length 324;  
Best Local Similarity 62.5%; Pred. No. 6.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LDDIETTC 9  
DB 273 LDDIETTC 280

RESULT 48  
US-08-624-545-1  
Sequence 1, Application US/08624545  
Patent No. 5817495  
GENERAL INFORMATION:  
APPLICANT: Pedersen, Anders  
APPLICANT: Wind, Jesper  
APPLICANT: Svendsen, Allan  
APPLICANT: Cherry, Joel  
APPLICANT: Lamea, Michael  
APPLICANT: Schneider, Palte  
APPLICANT: Jensen, Birger  
TITLE OF INVENTION: H2O2-Stable Peroxidase Variants  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: NO. 58174950 No. 5817495disk of No. 5817495ch America  
STREET: 405 Lexington Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10174  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/624,545
; FILING DATE: 07-MAY-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
;   NAME: Agrie, Cheryl H.
;   REGISTRATION NUMBER: 34,086
;   REFERENCE/DOCKET NUMBER: 4072.204
;   TELEPHONE: (212) 867-0123
;   TELEFAX: (212) 878-9655
; INFORMATION FOR SEQ ID NO: 1:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 343 amino acids
;     TYPE: amino acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-624-545-1
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Query Match          65.2%; Score 30; DB 1; Length 343;
Best Local Similarity 44.4%; Pred. No. 6.4e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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QY      1 SLQDIETIC 9
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Db      313 TVDDIEVSC 321
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RESULT 49
US-09-235-736-1
; Sequence 1, Application US/09235736
; Patent No. 5968883
; GENERAL INFORMATION:
;   APPLICANT: Cherry, Joel
;   APPLICANT: Svendsen, Allan
;   APPLICANT: Damhus, Ture
;   APPLICANT: Schneider, Palle
;   TITLE OF INVENTION: Peroxidase Variants
;   FILE REFERENCE: 4938.204-US
;   CURRENT APPLICATION NUMBER: US/09/235,736
;   EARLIER FILING DATE: 1999-01-22
;   EARLIER APPLICATION NUMBER: 0937/96
;   EARLIER FILING DATE: 1996-09-03
;   EARLIER APPLICATION NUMBER: PCT/DK97/00361
;   EARLIER FILING DATE: 1997-09-02
;   NUMBER OF SEQ ID NOS: 1
;   SOFTWARE: FastSeq for Windows Version 3.0
;   SEQ ID NO 1
;   LENGTH: 343
;   TYPE: PRT
;   ORGANISM: Coprinus cinereus
; US-09-235-736-1
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Query Match          65.2%; Score 30; DB 1; Length 343;
Best Local Similarity 44.4%; Pred. No. 6.4e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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QY      1 SLQDIETIC 9
      ::|||::|
Db      313 TVDDIEVSC 321
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RESULT 50
US-09-024-532-4
; Sequence 4, Application US/09024532
; Patent No. 6245901
; GENERAL INFORMATION:
;   APPLICANT: von der Osten, Claus
;   APPLICANT: Olsen, Arne Agerlin
;   APPLICANT: Roggen, Erwin Ludo
;   TITLE OF INVENTION: A Modified Polypeptide
;   FILE REFERENCE: 4923.204-US
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; CURRENT APPLICATION NUMBER: US/09/024,532
; CURRENT FILING DATE: 1998-02-17
; EARLIER APPLICATION NUMBER: PCT/DK98/00046
; EARLIER FILING DATE: 1998-02-06
; EARLIER APPLICATION NUMBER: 0135/97
; EARLIER FILING DATE: 1997-02-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0
;   SEQ ID NO 4
;   LENGTH: 344
;   TYPE: PRT
;   ORGANISM: Arthromyces ramosus
; US-09-024-532-4
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Query Match          65.2%; Score 30; DB 2; Length 344;
Best Local Similarity 44.4%; Pred. No. 6.4e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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QY      1 SLQDIETIC 9
      ::|||::|
Db      314 TVDDIEVSC 322
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Search completed: May 5, 2006, 02:25:29
Job time : 23.8 secs
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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds  
(without alignments)  
67.271 Million cell updates/sec

Title: US-08-170-344-22  
Perfect score: 46  
Sequence: 1 SLQDIEITC 9

Scoring table: BLOSUM62

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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 1000 summaries

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- 3: /cgn2\_6/prodata/1/pubppa/US09\_PUBCOMB.pep:\*
- 4: /cgn2\_6/prodata/1/pubppa/US10A\_PUBCOMB.pep:\*
- 5: /cgn2\_6/prodata/1/pubppa/US10B\_PUBCOMB.pep:\*
- 6: /cgn2\_6/prodata/1/pubppa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

## SUMMARIES

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2	46	100.0	10	US-10-751-845-130	Sequence 130, App
3	46	100.0	42	US-10-751-845-152	Sequence 152, App
4	46	100.0	119	US-10-751-845-159	Sequence 159, App
5	46	100.0	158	US-10-800-023-27	Sequence 27, App
6	46	100.0	158	US-11-021-949-28	Sequence 28, App
7	46	100.0	172	US-10-472-724-6	Sequence 6, App
8	46	100.0	236	US-10-751-845-157	Sequence 157, App
9	46	100.0	237	US-10-751-845-158	Sequence 158, App
10	46	100.0	261	US-10-751-845-160	Sequence 160, App
11	46	100.0	278	US-10-000-903-21	Sequence 21, App
12	46	100.0	278	US-10-899-771-21	Sequence 21, App
13	46	100.0	383	US-10-000-903-23	Sequence 23, App
14	46	100.0	383	US-10-899-771-23	Sequence 23, App
15	42	91.3	9	US-10-751-845-131	Sequence 131, App
16	40	87.0	481	US-11-097-143-17043	Sequence 17043, A
17	39	84.8	282	US-10-243-552-539	Sequence 539, App
18	38	82.6	30	US-10-296-734-1354	Sequence 1354, App
19	38	82.6	378	US-10-450-763-42351	Sequence 42351, A
20	38	82.6	388	US-10-450-763-42322	Sequence 42322, A
21	38	82.6	509	US-10-097-340-254	Sequence 254, App
22	38	82.6	509	US-10-157-031-44	Sequence 44, App
23	38	82.6	509	US-10-170-385-87	Sequence 87, App
24	38	82.6	509	US-10-117-937-7	Sequence 77, App
25	38	82.6	509	US-10-173-999-2	Sequence 2, App
26	38	82.6	509	US-10-058-270A-110	Sequence 110, App
27	38	82.6	509	US-10-296-734-830	Sequence 830, App

28	38	82.6	509	US-10-657-022-77	Sequence 77, App
29	38	82.6	509	US-10-643-795A-92	Sequence 92, App
30	38	82.6	509	US-10-723-860-4358	Sequence 4358, App
31	38	82.6	509	US-10-482-023-136	Sequence 136, App
32	38	82.6	509	US-10-948-518-92	Sequence 92, App
33	38	82.6	509	US-10-794-514A-451	Sequence 451, App
34	38	82.6	509	US-10-871-708-8	Sequence 8, App
35	38	82.6	509	US-10-756-149-5765	Sequence 5765, App
36	38	82.6	509	US-11-067-064-77	Sequence 77, App
37	38	82.6	509	US-11-050-928-254	Sequence 254, App
38	38	82.6	509	US-11-067-159-77	Sequence 77, App
39	38	82.6	530	US-11-097-143-42198	Sequence 42198, A
40	38	82.6	3541	US-10-296-734-1454	Sequence 1454, App
41	36	78.3	99	US-10-389-647-605	Sequence 605, App
42	36	78.3	162	US-10-767-701-58324	Sequence 58324, A
43	36	78.3	454	US-10-437-963-184385	Sequence 184385, A
44	36	78.3	462	US-10-425-115-227314	Sequence 227314, A
45	35	76.1	67	US-10-767-701-31617	Sequence 31617, A
46	35	76.1	158	US-11-021-949-29	Sequence 29, App
47	35	76.1	179	US-10-425-115-246840	Sequence 246840, A
48	35	76.1	195	US-10-424-599-205020	Sequence 205020, A
49	35	76.1	1070	US-10-032-585-7389	Sequence 7389, App
50	35	76.1	2478	US-10-437-963-131742	Sequence 131742, App
51	34	73.9	131	US-10-732-180-228	Sequence 228, App
52	34	73.9	140	US-10-316-194-9	Sequence 9, App
53	34	73.9	140	US-10-316-180-9	Sequence 37, App
54	34	73.9	140	US-10-732-180-37	Sequence 37, App
55	34	73.9	140	US-10-732-180-37	Sequence 37, App
56	34	73.9	217	US-10-282-122A-47485	Sequence 47485, A
57	34	73.9	344	US-09-349-015-35	Sequence 35, App
58	34	73.9	366	US-10-219-664-25	Sequence 25, App
59	34	73.9	366	US-10-291-265-410	Sequence 410, App
60	34	73.9	366	US-10-291-265-410	Sequence 410, App
61	34	73.9	366	US-10-367-978-882	Sequence 882, App
62	34	73.9	366	US-10-367-978-882	Sequence 882, App
63	34	73.9	330	US-10-732-923-20210	Sequence 20210, A
64	34	73.9	520	US-10-000-273-2	Sequence 2, App
65	34	73.9	520	US-10-385-760-2	Sequence 2, App
66	34	73.9	534	US-10-821-273-24	Sequence 24, App
67	34	73.9	534	US-11-097-143-1011	Sequence 1011, App
68	34	73.9	722	US-10-437-963-188039	Sequence 188039, A
69	34	73.9	914	US-10-369-493-3723	Sequence 3723, App
70	34	73.9	914	US-10-128-114-3197	Sequence 3197, App
71	34	73.9	994	US-10-128-114-8197	Sequence 8197, App
72	34	73.9	1281	US-10-437-963-178676	Sequence 178676, A
73	34	73.9	1448	US-10-437-963-138597	Sequence 138597, A
74	33	71.7	45	US-09-925-201-1221	Sequence 1221, App
75	33	71.7	45	US-10-106-698-4592	Sequence 4592, App
76	33	71.7	101	US-10-425-114-72377	Sequence 72377, A
77	33	71.7	113	US-10-719-996A-28	Sequence 28, App
78	33	71.7	133	US-10-719-996A-28	Sequence 30, App
79	33	71.7	133	US-10-425-115-248402	Sequence 248402, A
80	33	71.7	274	US-10-369-493-1669	Sequence 1669, App
81	33	71.7	444	US-10-424-599-23335	Sequence 23335, A
82	33	71.7	499	US-10-425-114-55035	Sequence 55035, A
83	33	71.7	518	US-10-425-114-55035	Sequence 55035, A
84	33	71.7	535	US-10-424-599-159593	Sequence 159593, A
85	33	71.7	532	US-10-425-114-40723	Sequence 40723, A
86	33	71.7	764	US-10-425-114-54331	Sequence 54331, A
87	33	71.7	860	US-10-389-166-1868	Sequence 1868, App
88	33	71.7	873	US-08-911-824-61	Sequence 61, App
89	33	71.7	885	US-10-437-963-160466	Sequence 160466, A
90	33	71.7	1270	US-10-437-963-194468	Sequence 194468, A
91	33	71.7	60	US-10-425-114-68856	Sequence 68856, A
92	32	69.6	85	US-10-276-774-2423	Sequence 107592, A
93	32	69.6	89	US-09-764-891-3667	Sequence 3667, App
94	32	69.6	95	US-10-108-260A-2958	Sequence 2958, App
95	32	69.6	107	US-10-450-763-9274	Sequence 45274, A
96	32	69.6	158	US-11-021-949-30	Sequence 30, App
97	32	69.6	203	US-10-424-599-188156	Sequence 188156, A
98	32	69.6	266	US-10-425-115-270503	Sequence 270503, A
99	32	69.6			
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101	32	69.6	267	4	US-10-425-115-365359	Sequence 365359,	174	31	67.4	620	4	US-10-437-963-171134	Sequence 171134,
102	32	69.6	269	4	US-10-437-963-169997	Sequence 169997,	175	31	67.4	626	4	US-10-425-115-287434	Sequence 287434,
103	32	69.6	273	4	US-10-425-114-48009	Sequence 48009, A	176	31	67.4	647	4	US-10-437-963-146272	Sequence 146272,
104	32	69.6	277	4	US-10-424-599-196048	Sequence 196048,	177	31	67.4	658	4	US-10-425-114-35279	Sequence 39279, A
105	32	69.6	278	4	US-10-425-114-63627	Sequence 63627, A	178	31	67.4	686	6	US-11-097-143-24858	Sequence 24858, A
106	32	69.6	281	6	US-11-097-143-6108	Sequence 6108, Ap	179	31	67.4	807	4	US-10-437-963-168819	Sequence 158819,
107	32	69.6	291	6	US-11-097-143-25155	Sequence 25155, A	180	31	67.4	852	4	US-10-270-875-19	Sequence 19, Appl
108	32	69.6	293	6	US-10-739-930-6245	Sequence 6245, Ap	181	31	67.4	852	4	US-10-270-875-19	Sequence 19, Appl
109	32	69.6	296	5	US-10-739-930-6652	Sequence 6652, Ap	182	31	67.4	852	4	US-10-270-788-19	Sequence 19, Appl
110	32	69.6	308	4	US-10-128-714-8517	Sequence 8517, Ap	183	31	67.4	852	4	US-10-270-710-19	Sequence 19, Appl
111	32	69.6	310	4	US-10-128-714-3517	Sequence 3517, Ap	184	31	67.4	852	4	US-10-270-859-19	Sequence 19, Appl
112	32	69.6	314	4	US-10-425-115-341980	Sequence 341980,	185	31	67.4	852	4	US-10-270-846-19	Sequence 19, Appl
113	32	69.6	342	4	US-10-425-114-49062	Sequence 49062, A	186	31	67.4	922	4	US-10-032-588-7219	Sequence 7219, Ap
114	32	69.6	352	4	US-10-425-114-65377	Sequence 65377, A	187	31	67.4	956	4	US-10-437-963-158820	Sequence 158820,
115	32	69.6	363	4	US-10-369-493-113083	Sequence 13083, A	188	31	67.4	1146	4	US-10-437-963-18157	Sequence 118157,
116	32	69.6	365	4	US-10-424-599-216607	Sequence 216607,	189	31	67.4	1318	5	US-10-915-029-10	Sequence 10, Appl
117	32	69.6	382	6	US-11-097-143-42756	Sequence 42756, A	190	31	67.4	1319	6	US-10-041-855-8	Sequence 8, Appl1
118	32	69.6	390	4	US-10-282-122A-72268	Sequence 72268, A	191	31	67.4	1319	6	US-11-073-923-5494	Sequence 8, Appl1
119	32	69.6	392	4	US-10-282-122A-54534	Sequence 54534, A	192	31	67.4	1661	5	US-10-450-763-55074	Sequence 55074, A
120	32	69.6	542	4	US-10-437-963-113019	Sequence 113019,	193	31	67.4	2055	4	US-10-276-774-1795	Sequence 1795, Ap
121	32	69.6	612	4	US-10-306-905-6	Sequence 6, Appl1	194	31	67.4	2090	6	US-11-097-143-1575	Sequence 1575, Ap
122	32	69.6	675	4	US-10-306-905-2	Sequence 2, Appl1	195	31	67.4	4767	4	US-10-276-774-1802	Sequence 1902, Ap
123	32	69.6	787	6	US-11-097-143-21102	Sequence 21102, A	196	31	67.4	4967	4	US-10-668-767-60	Sequence 60, Appl
124	32	69.6	931	4	US-10-436-493-17890	Sequence 61, Appl1	197	31	67.4	4967	4	US-10-668-767-62	Sequence 62, Appl
125	32	69.6	931	4	US-10-369-493-17890	Sequence 17890, A	198	31	67.4	4968	4	US-10-668-767-61	Sequence 61, Appl
126	32	69.6	1282	4	US-10-259-194A-184	Sequence 184, App	199	31	65.2	33	4	US-10-425-115-25527	Sequence 25527,
127	32	69.6	1421	4	US-10-437-963-149400	Sequence 149400,	200	30	65.2	34	4	US-09-864-761-47240	Sequence 47240, A
128	31	67.4	37	4	US-10-424-599-174190	Sequence 174190,	201	30	65.2	36	4	US-10-437-963-105552	Sequence 105552,
129	31	67.4	3	3	US-09-864-761-37169	Sequence 37169, A	202	30	65.2	53	4	US-10-425-115-310711	Sequence 310711,
130	31	67.4	56	4	US-10-425-115-255106	Sequence 255106,	203	30	65.2	82	5	US-10-732-923-5494	Sequence 5494, Ap
131	31	67.4	62	4	US-10-437-963-173600	Sequence 173600,	204	30	65.2	96	3	US-09-864-408A-1168	Sequence 4168, Ap
132	31	67.4	63	4	US-10-425-115-265909	Sequence 265909,	205	30	65.2	102	4	US-10-335-977-9743	Sequence 9743, Ap
133	31	67.4	125	4	US-10-296-115-1156	Sequence 1156, Ap	206	30	65.2	108	4	US-10-437-963-182798	Sequence 182798
134	31	67.4	151	4	US-10-424-599-152135	Sequence 152135,	207	30	65.2	113	4	US-10-335-977-9743	Sequence 9743, Ap
135	31	67.4	161	4	US-10-425-115-187939	Sequence 187939,	208	30	65.2	117	4	US-10-425-114-53144	Sequence 53144, A
136	31	67.4	163	4	US-10-767-701-46146	Sequence 46146, A	209	30	65.2	128	4	US-10-424-599-237670	Sequence 237670,
137	31	67.4	166	4	US-10-767-701-46146	Sequence 46146, A	210	30	65.2	178	4	US-10-424-599-252942	Sequence 252942,
138	31	67.4	173	4	US-10-767-701-62532	Sequence 62532, A	211	30	65.2	194	4	US-10-424-599-272720	Sequence 272720
139	31	67.4	181	4	US-10-335-977-6676	Sequence 6676, Ap	212	30	65.2	219	4	US-10-425-115-344216	Sequence 344216,
140	31	67.4	183	4	US-10-335-977-6676	Sequence 6676, Ap	213	30	65.2	224	4	US-10-041-018-216	Sequence 216, App
141	31	67.4	186	6	US-11-097-143-17499	Sequence 17499, A	214	30	65.2	224	4	US-10-041-018-303	Sequence 303, App
142	31	67.4	204	4	US-10-424-599-148467	Sequence 148467,	215	30	65.2	224	4	US-10-041-018-355	Sequence 355, App
143	31	67.4	205	4	US-10-724-972A-6292	Sequence 6292, Ap	216	30	65.2	243	4	US-10-742-688-12	Sequence 12, Appl
144	31	67.4	217	4	US-10-282-122A-55135	Sequence 55135, A	217	30	65.2	244	4	US-10-041-018-208	Sequence 208, App
145	31	67.4	219	4	US-10-369-493-9207	Sequence 9207, Ap	218	30	65.2	244	4	US-10-041-018-234	Sequence 234, App
146	31	67.4	220	4	US-10-335-977-6677	Sequence 6677, Ap	219	30	65.2	245	4	US-10-041-018-349	Sequence 349, App
147	31	67.4	240	4	US-10-425-114-71356	Sequence 71356, A	220	30	65.2	245	4	US-10-425-114-70771	Sequence 70771, A
148	31	67.4	249	4	US-10-424-599-250712	Sequence 250712,	221	30	65.2	245	4	US-10-425-115-343542	Sequence 343542,
149	31	67.4	257	4	US-10-437-963-171132	Sequence 171132,	222	30	65.2	256	6	US-11-097-143-13101	Sequence 13101, A
150	31	67.4	266	4	US-10-369-493-17497	Sequence 17497, A	223	30	65.2	268	4	US-10-424-599-202343	Sequence 202343
151	31	67.4	287	4	US-10-424-599-187855	Sequence 187855,	224	30	65.2	272	4	US-10-742-688-8	Sequence 8, Appl1
152	31	67.4	315	4	US-10-437-963-176957	Sequence 176957,	225	30	65.2	281	4	US-10-839-882-2	Sequence 2, Appl1
153	31	67.4	332	31	US-10-437-963-113793	Sequence 113793,	226	30	65.2	287	4	US-10-369-493-11041	Sequence 13041, A
154	31	67.4	348	4	US-10-369-493-12815	Sequence 12815, A	227	30	65.2	292	4	US-10-166-428A-96	Sequence 96, Appl
155	31	67.4	355	4	US-10-424-599-220965	Sequence 220965,	228	30	65.2	322	4	US-10-000-273-6	Sequence 6, Appl1
156	31	67.4	365	4	US-10-328-675A-74	Sequence 74, Appl	229	30	65.2	322	4	US-10-385-760-6	Sequence 6, Appl1
157	31	67.4	375	4	US-10-369-493-3519	Sequence 3519, Ap	230	30	65.2	344	5	US-10-623-292-4	Sequence 4, Appl1
158	31	67.4	387	5	US-10-732-923-20139	Sequence 20139, A	231	30	65.2	352	3	US-09-874-131-24	Sequence 24, Appl
159	31	67.4	387	5	US-10-732-923-20140	Sequence 20140, A	232	30	65.2	352	5	US-10-663-401-24	Sequence 24, Appl
160	31	67.4	387	5	US-10-732-923-20141	Sequence 20141, A	233	30	65.2	357	5	US-10-732-923-20204	Sequence 20204, A
161	31	67.4	389	4	US-10-156-761-10727	Sequence 10727, A	234	30	65.2	357	5	US-10-732-923-20205	Sequence 20205, A
162	31	67.4	389	5	US-10-732-923-20143	Sequence 20143, A	235	30	65.2	357	5	US-10-732-923-20206	Sequence 20206, A
163	31	67.4	438	4	US-10-425-114-46754	Sequence 46754, A	236	30	65.2	358	4	US-10-742-688-16	Sequence 16, Appl
164	31	67.4	438	4	US-10-282-122A-60207	Sequence 60207, A	237	30	65.2	359	4	US-10-268-611-38	Sequence 14, Appl
165	31	67.4	457	4	US-10-335-977-6678	Sequence 6678, Ap	238	30	65.2	362	4	US-10-268-611-64	Sequence 38, Appl
166	31	67.4	498	4	US-10-437-963-108069	Sequence 108069,	239	30	65.2	362	4	US-10-369-493-2877	Sequence 2877, Ap
167	31	67.4	514	4	US-10-425-114-37857	Sequence 37857, A	240	30	65.2	362	5	US-10-824-194-47	Sequence 47, Appl
168	31	67.4	538	4	US-10-425-114-72963	Sequence 72963, A	241	30	65.2	377	5	US-10-891-105-7	Sequence 7, Appl1
169	31	67.4	547	4	US-10-083-357-1322	Sequence 1322, Ap	242	30	65.2	378	5	US-10-732-923-20154	Sequence 20154, A
170	31	67.4	570	4	US-10-424-233-14	Sequence 14, Appl	243	30	65.2	378	5	US-10-732-923-20207	Sequence 20207, A
171	31	67.4	590	5	US-10-032-585-7891	Sequence 7891, Ap	244	30	65.2	378	5	US-10-732-923-20208	Sequence 20208, A
172	31	67.4	601	4	US-10-732-923-19403	Sequence 19403, A	245	30	65.2	382	5	US-10-732-923-20155	Sequence 20155, A
173	31	67.4	601	4	US-10-425-115-287443	Sequence 287443,	246	30	65.2	382	5	US-10-732-923-20155	Sequence 20155, A

247	30	65.2	382	5	US-10-732-923-20209	Sequence 20209, A	320	29	63.0	63	3	US-09-820-843A-6	Sequence 6, Appl1
248	30	65.2	388	4	US-10-742-682-10	Sequence 10, Appl1	321	29	63.0	66	4	US-10-437-963-109923	Sequence 109923,
249	30	65.2	393	5	US-10-181-069-6	Sequence 6, Appl1	322	29	63.0	68	4	US-10-106-698-5449	Sequence 5449, Ap
250	30	65.2	400	3	US-09-804-357-6	Sequence 6, Appl1	323	29	63.0	76	4	US-10-339-740-202	Sequence 202, App
251	30	65.2	400	3	US-09-804-006-6	Sequence 6, Appl1	324	29	63.0	87	3	US-09-880-457-4	Sequence 4, Appl1
252	30	65.2	403	4	US-10-424-599-155143	Sequence 58350, A	325	29	63.0	87	3	US-10-273-231-2	Sequence 2, Appl1
253	30	65.2	420	5	US-10-450-763-58350	Sequence 4, Appl1	326	29	63.0	87	5	US-10-942-659-4	Sequence 4, Appl1
254	30	65.2	424	4	US-10-172-526-4	Sequence 13648, A	327	29	63.0	94	5	US-10-942-659-5	Sequence 5, Appl1
255	30	65.2	453	4	US-10-369-493-13648	Sequence 24, Appl1	328	29	63.0	95	3	US-10-840-457-6	Sequence 6, Appl1
256	30	65.2	455	4	US-10-322-686-24	Sequence 24, Appl1	329	29	63.0	95	3	US-09-880-457-6	Sequence 6, Appl1
257	30	65.2	455	4	US-10-742-682-2	Sequence 8018, Ap	330	29	63.0	95	4	US-10-227-884-82	Sequence 82, Appl1
258	30	65.2	455	4	US-10-369-493-8038	Sequence 109506, A	331	29	63.0	95	4	US-10-230-338-82	Sequence 82, Appl1
259	30	65.2	468	4	US-10-437-963-109506	Sequence 4, Appl1	332	29	63.0	95	4	US-10-230-338-82	Sequence 82, Appl1
260	30	65.2	472	3	US-09-841-758-4	Sequence 5, Appl1	333	29	63.0	95	4	US-10-218-631-82	Sequence 82, Appl1
261	30	65.2	472	3	US-09-841-758-5	Sequence 2, Appl1	334	29	63.0	95	4	US-10-414-82	Sequence 82, Appl1
262	30	65.2	472	4	US-10-787-421-2	Sequence 200723, A	335	29	63.0	95	4	US-10-232-224-82	Sequence 82, Appl1
263	30	65.2	479	4	US-10-437-963-200723	Sequence 4, Appl1	336	29	63.0	95	4	US-10-218-159A-82	Sequence 82, Appl1
264	30	65.2	482	4	US-10-742-682-4	Sequence 2840, Ap	337	29	63.0	95	4	US-10-227-873-82	Sequence 82, Appl1
265	30	65.2	483	4	US-10-369-493-2840	Sequence 5425, Ap	338	29	63.0	95	4	US-10-218-849-82	Sequence 82, Appl1
266	30	65.2	484	4	US-10-724-972A-5425	Sequence 47099, A	339	29	63.0	95	4	US-10-219-076-82	Sequence 82, Appl1
267	30	65.2	486	4	US-10-282-122A-47099	Sequence 48, Appl1	340	29	63.0	95	4	US-10-219-075-82	Sequence 82, Appl1
268	30	65.2	486	5	US-10-688-058-48	Sequence 59039, A	341	29	63.0	95	4	US-10-219-464-82	Sequence 82, Appl1
269	30	65.2	502	4	US-10-425-114-59039	Sequence 29, Appl1	342	29	63.0	95	4	US-10-219-466-82	Sequence 82, Appl1
270	30	65.2	516	4	US-10-205-194-29	Sequence 906, App	343	29	63.0	95	4	US-10-219-479-82	Sequence 82, Appl1
271	30	65.2	516	4	US-10-408-765A-906	Sequence 9228, Ap	344	29	63.0	95	4	US-10-310-434-82	Sequence 82, Appl1
272	30	65.2	539	4	US-10-156-761-9228	Sequence 36, Appl1	345	29	63.0	95	4	US-10-219-481-82	Sequence 82, Appl1
273	30	65.2	574	3	US-09-823-038A-36	Sequence 5, Appl1	346	29	63.0	95	4	US-10-330-260-82	Sequence 82, Appl1
274	30	65.2	574	3	US-09-943-075A-5	Sequence 5, Appl1	347	29	63.0	95	4	US-10-332-231-82	Sequence 82, Appl1
275	30	65.2	574	5	US-10-978-758-5	Sequence 1547, Ap	348	29	63.0	95	4	US-10-216-165-82	Sequence 82, Appl1
276	30	65.2	574	5	US-10-631-467-1547	Sequence 2486, Ap	349	29	63.0	95	4	US-10-218-956-82	Sequence 82, Appl1
277	30	65.2	734	4	US-10-369-493-2486	Sequence 22821, A	350	29	63.0	95	4	US-10-219-468-82	Sequence 82, Appl1
278	30	65.2	734	4	US-10-369-493-22821	Sequence 75, Appl1	351	29	63.0	95	4	US-10-219-468-82	Sequence 82, Appl1
279	30	65.2	743	5	US-10-618-281-75	Sequence 141582, A	352	29	63.0	95	4	US-10-219-468-82	Sequence 82, Appl1
280	30	65.2	757	4	US-10-437-963-141582	Sequence 69, Appl1	353	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
281	30	65.2	887	4	US-10-205-219-69	Sequence 170, App	354	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
282	30	65.2	887	4	US-10-041-018-170	Sequence 217, App	355	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
283	30	65.2	887	4	US-10-041-018-217	Sequence 225, App	356	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
284	30	65.2	887	4	US-10-041-018-225	Sequence 263, App	357	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
285	30	65.2	887	4	US-10-041-018-263	Sequence 266, App	358	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
286	30	65.2	887	4	US-10-041-018-266	Sequence 289, App	359	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
287	30	65.2	887	4	US-10-041-018-289	Sequence 306, App	360	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
288	30	65.2	887	4	US-10-041-018-306	Sequence 308, App	361	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
289	30	65.2	887	4	US-10-041-018-308	Sequence 356, App	362	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
290	30	65.2	887	4	US-10-041-018-356	Sequence 359, App	363	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
291	30	65.2	887	4	US-10-041-018-359	Sequence 180, App	364	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
292	30	65.2	934	5	US-10-989-891-150	Sequence 182, App	365	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
293	30	65.2	1096	4	US-10-263-929-182	Sequence 1671, A	366	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
294	30	65.2	1107	6	US-11-097-143-19671	Sequence 1577, Ap	367	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
295	30	65.2	1108	4	US-10-389-566-1377	Sequence 1550, Ap	368	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
296	30	65.2	1108	4	US-10-389-566-1650	Sequence 141105, A	369	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
297	30	65.2	1122	4	US-10-437-963-141105	Sequence 5860, Ap	370	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
298	30	65.2	1131	4	US-10-369-493-5860	Sequence 18, Appl1	371	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
299	30	65.2	1206	4	US-10-411-910A-18	Sequence 10, Appl1	372	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
300	30	65.2	1210	5	US-10-771-708-10	Sequence 56320, A	373	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
301	30	65.2	1212	5	US-10-450-763-56320	Sequence 4929, Ap	374	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
302	30	65.2	2117	6	US-11-097-143-4929	Sequence 28458, A	375	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
303	30	65.2	2117	6	US-11-097-143-28458	Sequence 6, Appl1	376	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
304	30	65.2	2139	3	US-09-727-384-6	Sequence 4, Appl1	377	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
305	30	65.2	2139	5	US-10-023-219-4	Sequence 2456, Ap	378	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
306	30	65.2	2139	5	US-10-690-276-4	Sequence 162, App	379	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
307	30	65.2	3647	4	US-10-408-765A-2436	Sequence 75, Appl1	380	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
308	30	65.2	8523	5	US-10-840-512-162	Sequence 76, Appl1	381	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
309	29	63.0	13	4	US-10-325-694-75	Sequence 77, Appl1	382	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
310	29	63.0	13	4	US-10-325-694-77	Sequence 296, App	383	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
311	29	63.0	13	4	US-10-325-694-77	Sequence 4, Appl1	384	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
312	29	63.0	20	4	US-10-273-231-4	Sequence 3938, A	385	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
313	29	63.0	25	4	US-10-339-740-296	Sequence 88, Appl1	386	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
314	29	63.0	38	5	US-10-450-763-3938	Sequence 88, Appl1	387	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
315	29	63.0	43	3	US-09-798-889-88	Sequence 31513, A	388	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
316	29	63.0	43	4	US-10-633-680-88	Sequence 36566, A	389	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
317	29	63.0	48	4	US-10-425-115-316513	Sequence 174223, A	390	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
318	29	63.0	49	3	US-09-864-761-36566		391	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1
319	29	63.0	54	4	US-10-424-599-174223		392	29	63.0	95	4	US-10-219-536-82	Sequence 82, Appl1

333	29	63.0	95	4	US-10-230-113-82	Sequence 82, Appl	466	29	63.0	208	5	US-10-828-559-8	Sequence 8, Appl1
334	29	63.0	95	4	US-10-230-183-82	Sequence 82, Appl	467	29	63.0	209	4	US-10-282-122A-61379	Sequence 61379, A
335	29	63.0	95	4	US-10-230-234-82	Sequence 82, Appl	468	29	63.0	211	4	US-10-425-115-31305	Sequence 31305, A
336	29	63.0	95	4	US-10-230-306-82	Sequence 82, Appl	469	29	63.0	220	3	US-09-764-870-343	Sequence 343, App
337	29	63.0	95	4	US-10-230-426-82	Sequence 82, Appl	470	29	63.0	220	3	US-09-764-853-684	Sequence 684, App
338	29	63.0	95	4	US-10-230-427-82	Sequence 82, Appl	471	29	63.0	220	4	US-10-125-540-343	Sequence 343, App
339	29	63.0	95	4	US-10-230-433-82	Sequence 82, Appl	472	29	63.0	220	4	US-10-103-313-461	Sequence 461, App
340	29	63.0	95	4	US-10-230-438-82	Sequence 82, Appl	473	29	63.0	220	4	US-10-158-057-264	Sequence 264, App
341	29	63.0	95	4	US-10-230-438-82	Sequence 82, Appl	474	29	63.0	220	4	US-10-425-115-26263	Sequence 26263, A
342	29	63.0	95	4	US-10-230-438-82	Sequence 82, Appl	475	29	63.0	224	5	US-10-732-923-57112	Sequence 5712, Ap
343	29	63.0	95	4	US-10-232-222-82	Sequence 82, Appl	476	29	63.0	234	5	US-10-828-559-7	Sequence 7, Appl1
344	29	63.0	95	4	US-10-219-070-82	Sequence 82, Appl	477	29	63.0	234	5	US-10-828-559-43	Sequence 43, Appl
345	29	63.0	95	4	US-10-219-472-82	Sequence 82, Appl	478	29	63.0	242	5	US-10-425-115-258096	Sequence 258096, A
346	29	63.0	95	4	US-10-219-527-82	Sequence 82, Appl	479	29	63.0	242	5	US-10-828-559-5	Sequence 5, Appl1
347	29	63.0	95	4	US-10-227-877-82	Sequence 82, Appl	480	29	63.0	242	5	US-10-828-559-39	Sequence 39, Appl
348	29	63.0	95	4	US-10-216-166-82	Sequence 82, Appl	481	29	63.0	250	4	US-10-282-122A-55314	Sequence 55314, A
349	29	63.0	95	4	US-10-216-612-82	Sequence 82, Appl	482	29	63.0	258	6	US-11-097-143-30075	Sequence 30075, A
350	29	63.0	95	4	US-10-216-163-82	Sequence 82, Appl	483	29	63.0	265	4	US-10-299-383-2	Sequence 2, Appl1
351	29	63.0	95	4	US-10-218-765-82	Sequence 82, Appl	484	29	63.0	265	4	US-10-404-724-58	Sequence 58, Appl
352	29	63.0	95	4	US-10-219-063-82	Sequence 82, Appl	485	29	63.0	265	4	US-10-816-276-54	Sequence 54, Appl
353	29	63.0	95	4	US-10-219-066-82	Sequence 82, Appl	486	29	63.0	265	5	US-10-828-559-4	Sequence 4, Appl1
354	29	63.0	95	4	US-10-219-067-82	Sequence 82, Appl	487	29	63.0	265	5	US-10-828-559-40	Sequence 40, Appl
355	29	63.0	95	4	US-10-219-068-82	Sequence 82, Appl	488	29	63.0	266	5	US-10-828-559-13	Sequence 13, Appl
356	29	63.0	95	4	US-10-219-069-82	Sequence 82, Appl	489	29	63.0	266	5	US-10-828-559-32	Sequence 32, Appl
357	29	63.0	95	4	US-10-219-073-82	Sequence 82, Appl	490	29	63.0	266	5	US-10-828-559-78	Sequence 78, Appl
358	29	63.0	95	4	US-10-219-475-82	Sequence 82, Appl	491	29	63.0	283	5	US-10-450-753-47441	Sequence 47441, A
359	29	63.0	95	4	US-10-219-480-82	Sequence 82, Appl	492	29	63.0	289	5	US-10-828-559-14	Sequence 14, Appl
360	29	63.0	95	4	US-10-219-483-82	Sequence 82, Appl	493	29	63.0	289	5	US-10-450-763-47919	Sequence 47919, A
361	29	63.0	95	4	US-10-219-525-82	Sequence 82, Appl	494	29	63.0	292	4	US-10-166-225A-95	Sequence 95, Appl
362	29	63.0	95	4	US-10-219-526-82	Sequence 82, Appl	495	29	63.0	292	5	US-10-472-928-598	Sequence 598, App
363	29	63.0	95	4	US-10-219-530-82	Sequence 82, Appl	496	29	63.0	295	4	US-10-617-3294-4794	Sequence 4794, Ap
364	29	63.0	95	4	US-10-219-531-82	Sequence 82, Appl	497	29	63.0	295	4	US-10-424-599-199275	Sequence 199275, A
365	29	63.0	95	4	US-10-219-532-82	Sequence 82, Appl	498	29	63.0	297	3	US-09-964-012-2	Sequence 2, Appl1
366	29	63.0	95	4	US-10-219-533-82	Sequence 82, Appl	499	29	63.0	297	4	US-10-145-586-88	Sequence 88, Appl
367	29	63.0	95	4	US-10-230-437-82	Sequence 82, Appl	500	29	63.0	297	4	US-10-425-114-42247	Sequence 42247, A
368	29	63.0	95	4	US-10-232-228-82	Sequence 82, Appl	501	29	63.0	303	4	US-10-108-260A-3965	Sequence 3965, Ap
369	29	63.0	95	4	US-10-232-228-82	Sequence 82, Appl	502	29	63.0	314	3	US-09-922-217-1110	Sequence 1110, Ap
370	29	63.0	95	4	US-10-230-120-82	Sequence 82, Appl	503	29	63.0	314	3	US-09-919-497-82	Sequence 82, Appl
371	29	63.0	95	4	US-10-219-535-82	Sequence 82, Appl	504	29	63.0	314	4	US-10-025-380-1110	Sequence 1110, Ap
372	29	63.0	95	4	US-10-332-230-82	Sequence 82, Appl	505	29	63.0	314	4	US-10-205-823-403	Sequence 403, App
373	29	63.0	95	4	US-10-119-480-82	Sequence 82, Appl	506	29	63.0	314	4	US-10-404-734-60	Sequence 60, Appl
374	29	63.0	95	5	US-10-219-477-82	Sequence 82, Appl	507	29	63.0	314	4	US-10-341-434-73	Sequence 73, Appl
375	29	63.0	95	5	US-10-942-659-6	Sequence 6, Appl1	508	29	63.0	314	4	US-10-236-031B-12	Sequence 12, Appl
376	29	63.0	105	5	US-10-332-180-229	Sequence 229, App	509	29	63.0	314	4	US-10-408-765A-38	Sequence 38, Appl
377	29	63.0	108	4	US-10-424-599-224630	Sequence 224630, A	510	29	63.0	314	4	US-10-672-878-6	Sequence 6, Appl1
378	29	63.0	110	4	US-10-316-194-39	Sequence 39, Appl	511	29	63.0	314	5	US-10-672-878-7	Sequence 7, Appl1
379	29	63.0	115	4	US-10-437-963-168757	Sequence 168757, A	512	29	63.0	314	5	US-10-643-795A-115	Sequence 115, App
380	29	63.0	127	4	US-10-282-122A-68931	Sequence 68931, A	513	29	63.0	314	5	US-10-643-795A-133	Sequence 133, App
381	29	63.0	128	5	US-10-332-180-241	Sequence 241, App	514	29	63.0	314	5	US-10-816-276-56	Sequence 56, App
382	29	63.0	131	4	US-10-437-963-180112	Sequence 180112, A	515	29	63.0	314	5	US-10-948-518-115	Sequence 115, App
383	29	63.0	134	5	US-10-732-180-59	Sequence 59, Appl	516	29	63.0	314	5	US-10-948-518-133	Sequence 133, App
384	29	63.0	142	4	US-10-369-493-10044	Sequence 10044, A	517	29	63.0	314	5	US-10-828-559-6	Sequence 6, Appl1
385	29	63.0	143	3	US-09-764-877-1731	Sequence 1731, Ap	518	29	63.0	314	6	US-10-828-559-41	Sequence 41, Appl
386	29	63.0	143	3	US-09-882-227-54	Sequence 54, Appl	519	29	63.0	315	4	US-11-051-454-403	Sequence 403, Appl
387	29	63.0	143	4	US-10-342-515-1731	Sequence 1731, Ap	520	29	63.0	315	4	US-10-672-878-4	Sequence 4, Appl1
388	29	63.0	143	4	US-10-333-977-6991	Sequence 6991, Ap	521	29	63.0	315	4	US-10-672-878-5	Sequence 5, Appl1
389	29	63.0	153	4	US-10-425-115-326530	Sequence 326530, A	522	29	63.0	318	5	US-10-828-559-34	Sequence 34, Appl
390	29	63.0	163	4	US-10-335-977-6992	Sequence 6992, Ap	523	29	63.0	323	4	US-10-032-585-7749	Sequence 7749, App
391	29	63.0	173	4	US-10-424-599-277920	Sequence 277920, A	524	29	63.0	324	4	US-10-289-763-782	Sequence 782, App
392	29	63.0	174	4	US-10-425-115-188466	Sequence 188466, A	525	29	63.0	324	4	US-10-282-122A-54685	Sequence 54685, A
393	29	63.0	176	4	US-10-425-115-203617	Sequence 203617, A	526	29	63.0	328	4	US-10-282-122A-52383	Sequence 52383, A
394	29	63.0	182	4	US-10-424-599-273482	Sequence 273482, A	527	29	63.0	333	4	US-10-138-998A-4	Sequence 4, Appl1
395	29	63.0	184	5	US-10-828-559-92	Sequence 92, Appl	528	29	63.0	333	6	US-11-097-143-3633	Sequence 3633, Ap
396	29	63.0	185	5	US-10-828-559-36	Sequence 36, Appl	529	29	63.0	335	4	US-10-156-761-1716	Sequence 12716, A
397	29	63.0	186	5	US-10-437-963-190223	Sequence 190223, A	530	29	63.0	343	6	US-11-097-143-37737	Sequence 37737, A
398	29	63.0	186	5	US-10-828-559-12	Sequence 12, Appl	531	29	63.0	350	4	US-10-437-963-108038	Sequence 108038, A
399	29	63.0	186	5	US-10-106-698-6736	Sequence 6736, Ap	532	29	63.0	351	3	US-09-798-889-82	Sequence 82, Appl
400	29	63.0	193	4	US-10-029-386-32203	Sequence 32203, A	533	29	63.0	351	4	US-10-633-680-82	Sequence 82, Appl
401	29	63.0	193	4	US-10-029-386-32295	Sequence 32295, A	534	29	63.0	355	4	US-10-424-599-275309	Sequence 275309, A
402	29	63.0	193	4	US-10-282-122A-54245	Sequence 54245, A	535	29	63.0	358	5	US-10-732-923-9402	Sequence 9402, Ap
403	29	63.0	204	4	US-10-424-599-203718	Sequence 203718, A	536	29	63.0	363	4	US-10-732-923-20728	Sequence 20728, A
404	29	63.0	207	4	US-10-425-115-191875	Sequence 191875, A	537	29	63.0	364	3	US-09-071-035-320	Sequence 320, App

539	29	63.0	364	4	US-10-306-576-320	Sequence 320, App	612	29	63.0	847	4	US-10-389-566-832	Sequence 832, App
540	29	63.0	364	5	US-10-912-362-320	Sequence 320, App	613	29	63.0	847	4	US-10-451-764-5	Sequence 5, Appl1
541	29	63.0	371	5	US-10-732-923-3856	Sequence 3856, Ap	614	29	63.0	871	4	US-10-437-963-158704	Sequence 158704,
542	29	63.0	374	4	US-10-437-963-152998	Sequence 152998,	615	29	63.0	874	5	US-10-487-092-18	Sequence 18,
543	29	63.0	375	3	US-09-925-300-1596	Sequence 1596, Ap	616	29	63.0	904	5	US-10-450-763-40306	Sequence 40306, A
544	29	63.0	375	4	US-10-106-698-4883	Sequence 4883, Ap	617	29	63.0	920	4	US-10-437-963-185769	Sequence 185769,
545	29	63.0	376	4	US-10-095-975-2	Sequence 2, Appl1	618	29	63.0	924	4	US-10-467-252-2	Sequence 2, Appl1
546	29	63.0	377	4	US-10-025-730-5	Sequence 5, Appl1	619	29	63.0	927	4	US-10-437-963-185764	Sequence 185764,
547	29	63.0	377	4	US-10-767-701-43368	Sequence 43368, A	620	29	63.0	944	4	US-10-437-963-185770	Sequence 185770,
548	29	63.0	377	5	US-10-732-923-20142	Sequence 20142, A	621	29	63.0	949	4	US-10-017-161-1102	Sequence 1102, Ap
549	29	63.0	380	4	US-10-437-963-152979	Sequence 152979,	622	29	63.0	953	4	US-10-267-502-399	Sequence 399, App
550	29	63.0	381	5	US-10-732-923-20153	Sequence 20153, A	623	29	63.0	953	4	US-10-267-502-400	Sequence 400, App
551	29	63.0	385	4	US-10-437-963-198968	Sequence 198968,	624	29	63.0	953	4	US-10-408-765A-1671	Sequence 1671, Ap
552	29	63.0	387	3	US-09-071-035-318	Sequence 318, App	625	29	63.0	953	4	US-10-437-963-16195	Sequence 16195,
553	29	63.0	387	4	US-10-206-576-318	Sequence 318, App	626	29	63.0	969	3	US-10-370-71B-258	Sequence 258, App
554	29	63.0	387	4	US-10-282-122A-57311	Sequence 57311, A	627	29	63.0	969	4	US-09-118-276-2	Sequence 2, Appl1
555	29	63.0	387	4	US-10-437-963-153012	Sequence 153012,	628	29	63.0	969	4	US-10-425-115-311100	Sequence 311100,
556	29	63.0	387	5	US-10-912-362-318	Sequence 318, App	629	29	63.0	969	4	US-10-425-115-311100	Sequence 311100,
557	29	63.0	390	4	US-10-238-075-887	Sequence 887, App	630	29	63.0	980	3	US-09-118-276-11	Sequence 11, Appl
558	29	63.0	394	4	US-10-264-049-2328	Sequence 2328, Ap	631	29	63.0	980	4	US-10-705-197A-11	Sequence 11, Appl
559	29	63.0	400	3	US-09-738-626-4358	Sequence 4358, Ap	632	29	63.0	980	4	US-10-425-115-311105	Sequence 311105,
560	29	63.0	402	4	US-10-450-763-45491	Sequence 45491, A	633	29	63.0	982	4	US-10-650-425-2	Sequence 2, Appl1
561	29	63.0	431	5	US-10-450-763-45491	Sequence 10564, A	634	29	63.0	982	5	US-10-647-268-2	Sequence 2, Appl1
562	29	63.0	439	3	US-09-815-242-10564	Sequence 106484, A	635	29	63.0	988	5	US-10-647-268-4	Sequence 4, Appl1
563	29	63.0	441	5	US-10-437-963-106484	Sequence 46899, A	636	29	63.0	988	5	US-10-647-268-10	Sequence 10, Appl
564	29	63.0	444	4	US-10-369-493-23154	Sequence 23154, A	637	29	63.0	994	3	US-09-852-909-2	Sequence 2, Appl1
565	29	63.0	446	4	US-10-161-051-150	Sequence 150, App	638	29	63.0	994	4	US-10-435-341-2	Sequence 1, Appl1
566	29	63.0	457	5	US-10-732-923-23731	Sequence 23731, A	639	29	63.0	995	4	US-10-094-749-2626	Sequence 2626, Ap
567	29	63.0	457	5	US-10-437-963-183737	Sequence 183737, A	640	29	63.0	995	4	US-10-437-963-128073	Sequence 128073,
568	29	63.0	482	4	US-10-282-122A-48836	Sequence 48836, A	641	29	63.0	1012	3	US-09-733-643-16	Sequence 16, Appl
569	29	63.0	484	4	US-10-437-963-127416	Sequence 127416, A	642	29	63.0	1032	3	US-10-120-801-64	Sequence 64, Appl
570	29	63.0	488	5	US-10-450-763-45489	Sequence 45489, A	643	29	63.0	1032	4	US-10-389-566-834	Sequence 834, App
571	29	63.0	489	5	US-10-282-122A-78106	Sequence 78106, A	644	29	63.0	1059	4	US-10-389-566-833	Sequence 833, App
572	29	63.0	512	4	US-10-425-115-349633	Sequence 349633, A	645	29	63.0	1069	4	US-10-437-963-143424	Sequence 143424,
573	29	63.0	547	4	US-10-276-774-1728	Sequence 1728, Ap	646	29	63.0	1112	4	US-10-437-963-200810	Sequence 200810,
574	29	63.0	558	4	US-10-306-905-7	Sequence 7, Appl1	647	29	63.0	1112	2	US-08-915-048A-2	Sequence 2, Appl1
575	29	63.0	565	4	US-10-424-599-264504	Sequence 264504, A	648	29	63.0	1111	2	US-10-450-763-423014	Sequence 42014, A
576	29	63.0	565	4	US-10-369-493-22345	Sequence 22345, A	649	29	63.0	1111	6	US-11-097-143-25515	Sequence 25515, A
577	29	63.0	592	4	US-10-424-599-251860	Sequence 251860,	650	29	63.0	1164	6	US-10-369-493-9770	Sequence 9770, Ap
578	29	63.0	621	4	US-10-306-905-1	Sequence 1, Appl1	651	29	63.0	1164	4	US-10-282-122A-47218	Sequence 47218, A
579	29	63.0	631	4	US-10-369-493-1688	Sequence 1688, Ap	652	29	63.0	1169	4	US-10-505-486-97	Sequence 97, Appl
580	29	63.0	635	4	US-10-437-963-192708	Sequence 192708,	653	29	63.0	1232	5	US-10-367-978-11	Sequence 11, Appl
581	29	63.0	638	4	US-10-451-764-17	Sequence 17, Appl	654	29	63.0	1332	4	US-10-437-963-190417	Sequence 190417,
582	29	63.0	639	6	US-11-097-143-19269	Sequence 19269, A	655	29	63.0	1332	4	US-10-450-763-39944	Sequence 39944, A
583	29	63.0	643	3	US-09-906-226-49	Sequence 49, Appl	656	29	63.0	1359	5	US-10-648-512-3	Sequence 3, Appl1
584	29	63.0	647	4	US-10-275-555A-8	Sequence 8, Appl1	657	29	63.0	1356	4	US-10-648-512-3	Sequence 2, Appl1
585	29	63.0	669	4	US-10-270-333-183	Sequence 183, App	658	29	63.0	1401	4	US-10-374-077-206	Sequence 206, App
586	29	63.0	669	6	US-11-097-143-39366	Sequence 39366, A	659	29	63.0	1401	4	US-10-648-512-2	Sequence 2, Appl1
587	29	63.0	675	4	US-10-451-764-14	Sequence 14, Appl	660	29	63.0	1426	4	US-10-648-512-8	Sequence 8, Appl1
588	29	63.0	677	4	US-10-741-600-1467	Sequence 1467, Ap	661	29	63.0	1426	4	US-10-648-512-18	Sequence 18, Appl
589	29	63.0	677	6	US-11-097-143-13272	Sequence 13272, A	662	29	63.0	1426	4	US-10-648-512-18	Sequence 18, Appl
590	29	63.0	702	4	US-10-422-536-113	Sequence 113, App	663	29	63.0	1426	6	US-11-061-626-2	Sequence 2, Appl1
591	29	63.0	703	4	US-10-729-951-11	Sequence 11, Appl	664	29	63.0	1426	6	US-11-061-626-8	Sequence 8, Appl1
592	29	63.0	703	4	US-10-729-951-11	Sequence 11, Appl	665	29	63.0	1426	6	US-11-061-626-8	Sequence 8, Appl1
593	29	63.0	703	4	US-10-755-889-749	Sequence 749, App	666	29	63.0	1426	6	US-11-061-626-18	Sequence 18, Appl
594	29	63.0	703	4	US-10-437-963-145384	Sequence 145384,	667	29	63.0	1426	6	US-10-732-923-1742	Sequence 1742, Ap
595	29	63.0	711	4	US-10-087-192-102	Sequence 102, App	668	29	63.0	1426	5	US-11-097-143-21334	Sequence 21384, A
596	29	63.0	718	4	US-10-437-963-122066	Sequence 122066,	669	29	63.0	1426	5	US-10-450-763-45458	Sequence 45458, A
597	29	63.0	730	4	US-10-408-765A-9	Sequence 9, Appl1	670	29	63.0	1426	5	US-10-437-963-110521	Sequence 110521,
598	29	63.0	744	4	US-10-408-765A-550	Sequence 550, App	671	29	63.0	1426	4	US-10-032-585-7689	Sequence 7689, Ap
599	29	63.0	745	4	US-10-741-600-1466	Sequence 1466, Ap	672	29	63.0	1426	4	US-10-741-191-22	Sequence 22, Appl
600	29	63.0	745	5	US-10-741-600-1466	Sequence 1465, Ap	673	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
601	29	63.0	777	5	US-10-741-600-1465	Sequence 1465, Ap	674	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
602	29	63.0	792	5	US-10-741-600-1465	Sequence 1465, Ap	675	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
603	29	63.0	813	3	US-09-732-180-7	Sequence 7, Appl1	676	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
604	29	63.0	813	4	US-10-054-399A-29	Sequence 29, Appl	677	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
605	29	63.0	824	4	US-10-437-963-194650	Sequence 194650,	678	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
606	29	63.0	826	3	US-09-852-909-4	Sequence 4, Appl1	679	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
607	29	63.0	826	4	US-10-435-341-4	Sequence 4, Appl1	680	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
608	29	63.0	826	4	US-09-732-180-2	Sequence 2, Appl1	681	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
609	29	63.0	844	3	US-10-054-399A-24	Sequence 24, Appl	682	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
610	29	63.0	844	4	US-10-032-585-7142	Sequence 7142, Ap	683	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl
611	29	63.0	844	4	US-10-032-585-7142	Sequence 7142, Ap	684	29	63.0	1426	4	US-10-742-350-22	Sequence 22, Appl



685	28	60.9	68	4	US-10-381-906-93	Sequence 93, Appl	758	28	60.9	121	3	US-09-771-383-11	Sequence 11, Appl
686	28	60.9	68	4	US-10-381-906-95	Sequence 95, Appl	759	28	60.9	121	3	US-09-770-834-12	Sequence 12, Appl
687	28	60.9	70	4	US-10-381-906-89	Sequence 89, Appl	760	28	60.9	121	4	US-10-717-138-12	Sequence 12, Appl
688	28	60.9	70	4	US-10-381-906-90	Sequence 90, Appl	761	28	60.9	124	4	US-10-037-417-103	Sequence 103, Appl
689	28	60.9	70	4	US-10-381-906-91	Sequence 91, Appl	762	28	60.9	125	4	US-10-425-115-265461	Sequence 265461, A
690	28	60.9	70	4	US-10-381-906-92	Sequence 92, Appl	763	28	60.9	129	4	US-10-425-115-347772	Sequence 347772, A
691	28	60.9	72	4	US-10-424-599-143361	Sequence 143361, A	764	28	60.9	131	4	US-10-094-749-1993	Sequence 1993, Ap
692	28	60.9	72	4	US-10-424-599-175961	Sequence 175961, A	765	28	60.9	131	4	US-10-424-599-203714	Sequence 203714, A
693	28	60.9	74	3	US-09-728-721-28	Sequence 28, Appl	766	28	60.9	131	4	US-10-425-115-365722	Sequence 365722, A
694	28	60.9	74	4	US-10-105-931-28	Sequence 28, Appl	767	28	60.9	132	4	US-10-425-115-69202	Sequence 69202, A
695	28	60.9	74	4	US-10-118-984-28	Sequence 28, Appl	768	28	60.9	134	3	US-09-864-408A-504	Sequence 504, App
696	28	60.9	74	4	US-10-295-981-28	Sequence 28, Appl	769	28	60.9	134	4	US-10-437-963-178996	Sequence 178996, A
697	28	60.9	74	5	US-10-843-188-28	Sequence 28, Appl	770	28	60.9	134	4	US-10-425-115-363340	Sequence 363430, A
698	28	60.9	75	4	US-10-424-599-155875	Sequence 155875, A	771	28	60.9	135	4	US-10-424-599-169375	Sequence 169375, A
699	28	60.9	78	4	US-10-424-599-144305	Sequence 144305, A	772	28	60.9	138	4	US-10-424-599-261692	Sequence 261692, A
700	28	60.9	78	4	US-10-425-115-188886	Sequence 188886, A	773	28	60.9	139	4	US-10-424-599-194165	Sequence 194165, A
701	28	60.9	78	4	US-10-425-115-325385	Sequence 325385, A	774	28	60.9	141	4	US-10-028-248A-30	Sequence 30, Appl
702	28	60.9	79	4	US-10-425-115-271403	Sequence 271403, A	775	28	60.9	141	4	US-10-107-782-30	Sequence 141215, A
703	28	60.9	79	4	US-10-425-115-335258	Sequence 335258, A	776	28	60.9	142	4	US-10-437-963-141215	Sequence 35204, A
704	28	60.9	79	4	US-10-425-115-351221	Sequence 351221, A	777	28	60.9	142	4	US-10-767-701-35204	Sequence 35204, A
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## ALIGNMENTS

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; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR FILING DATE: 1999-12-09
; PRIOR FILING DATE: 1999-09-16
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-129

Query Match 100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9
Db 1 SLQDIETIC 9

RESULT 2
US-10-751-845-130
; Sequence 130, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
```

```
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-130

Query Match 100.0%; Score 46; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9
Db 1 SLQDIETIC 9

RESULT 3
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

Query Match 100.0%; Score 46; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETIC 9
Db 16 SLQDIETIC 24

RESULT 4
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
```

```

1 PRIOR APPLICATION NUMBER: US/09/664,225
2 PRIOR FILING DATE: 2000-08-18
3 PRIOR APPLICATION NUMBER: US 60/159,846
4 PRIOR FILING DATE: 1999-12-09
5 PRIOR APPLICATION NUMBER: US 60/154,665
6 PRIOR FILING DATE: 1999-09-16
7 NUMBER OF SEQ ID NOS: 163
8 SOFTWARE: FastSeq for Windows Version 4.0
9 SEQ ID NO 159
10 LENGTH: 119
11 TYPE: PR1
12 ORGANISM: Artificial Sequence
13 FEATURE:
14 OTHER INFORMATION: Artificial fusion sequence
15 US-10-751-845-159

```

Query Match	100.0%	Score 46	DB 5	length 119
Best Local Similarity	100.0%	Pred. No.	0.54	
Matches	9	Conservative	0	Mismatches 0; Indels 0; Gaps 0.

Qy	1	SLQDIEITC	9
Db	16	SLQDIEITC	24

```

RESULT 5
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258668A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response Therefrom
; FILE REFERENCE: 600-1-081CONC1P1
; CURRENT APPLICATION NUMBER: US/10/800,023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

```

Query Match	100.0%	Score 46;	DB 5;	length 158;
Similarity	100.0%	Pred NO. 0.73;		
Best Local	9;	Conservative	0;	Indels 0;
Matches	9;	Mismatches	0;	Gaps 0;

QY	1	SLQDIEITC	9
Db	24	SLQDIEITC	32

RESULT 6  
US-11-021-949-28  
; Sequence 28. Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU PETER  
; APPLICANT: GARNAN, JONATHAN DAVID  
; APPLICANT: BENJAMINS, MICHAEL P.  
; APPLICANT: DIAZ-SARMIENTO, CHAORRO SOMOZA

```

?
? APPLICANT: SCHEWEIZER, JOHANNES
? TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HBV
? TITLE OR INVENTION: AND METHODS OF THEIR USE
? FILE REFERENCE: VITA-012
? CURRENT APPLICATION NUMBER: US/11/021,949
? CURRENT FILING DATE: 2004-12-23
? PRIOR APPLICATION NUMBER: 60/532,373
? PRIOR FILING DATE: 2003-12-23
? NUMBER OF SEQ ID NOS: 361
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO: 28
? LENGTH: 158
? TYPE: PR1
? ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

```

Query Match	100.0%;	Score 46;	DB 6;	Length 158;
Best Local Similarity	100.0%;	Pred. No. 0.73;		
Matches	9;	Conservative 0;	Mismatches 0;	Indels 0;
				Gaps 0;

QY	1	SLQDIEITC	9
Db	24	SLQDIEITC	32

```

RESULT 7
US-10-472-724-6
/ Sequence 6, Application US/10472724
/ Publication No. US20040171806A1
/ GENERAL INFORMATION:
/ APPLICANT: Cid-Arregui, Angel
/ APPLICANT: Zur Hausen, Harald
/ TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
/ FILE REFERENCE: 4121-154
/ CURRENT APPLICATION NUMBER: US/10/472,724
/ CURRENT FILING DATE: 2003-09-17
/ PRIOR APPLICATION NUMBER: PCT/EP02/03271
/ PRIOR FILING DATE: 2002-03-22
/ PRIOR APPLICATION NUMBER: EP 01107271.7
/ PRIOR FILING DATE: 2001-03-23
/ NUMBER OF SEQ ID NOS: 27
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 6
/ LENGTH: 172
/ TYPE: prt
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

```

Query Match	100.0%;	Score 46;	DB 4;	Length 172;
Best Local Similarity	100.0%;	Pred. No. 0.8;		
Matches	9;	Conservative	0;	Mismatches 0; Gaps 0;

QY	1	SLQDIEITC	9
Db	30	SLQDIEITC	38

```

RESULT 8
US-10-751-845-157
? Sequence 157, Application US/10751845
? Publication No. US20050100928A1
? GENERAL INFORMATION:
? APPLICANT: Hedley, Mary Lynne
? APPLICANT: Urban, Robert G.
? APPLICANT: Chicz, Roman M.
? TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDES
? FILE REFERENCE: 08191-013001
? CURRENT APPLICATION NUMBER: US/10/751,845
? CURRENT FILING DATE: 2004-01-05
? PRIOR APPLICATION NUMBER: US/09/664,225
? PRIOR FILING DATE: 2000-08-18

```

```
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

```
Query Match          100.0%; Score 46; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 133 SLQDIETC 141
```

```
RESULT 9
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

```
Query Match          100.0%; Score 46; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 134 SLQDIETC 142
```

```
RESULT 10
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
```

```
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

```
Query Match          100.0%; Score 46; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 158 SLQDIETC 166
```

```
RESULT 11
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21
```

```
Query Match          100.0%; Score 46; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```
RESULT 12
US-10-699-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
```

```

; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```
Query Match          100.0%; Score 46; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```

RESULT 13
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US2002018222A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000.903
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23
```

```
Query Match          100.0%; Score 46; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```

RESULT 14
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US2005003138A1
; GENERAL INFORMATION:
; APPLICANT: Daleman, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899.771
; PRIOR FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581.976
```

```

; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23
```

```
Query Match          100.0%; Score 46; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 SLQDIETC 9
Db 135 SLQDIETC 143
```

```

RESULT 15
US-10-751-845-131
; Sequence 131, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751.845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664.225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-131
```

```
Query Match          91.3%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 2 LQDIETC 9
Db 1 LQDIETC 8
```

```

RESULT 16
US-11-097-143-17043
; Sequence 17043, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: C1000728
; CURRENT APPLICATION NUMBER: US/11/097.143
```

```
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17043
; LENGTH: 481
; TYPE: PRT
; ORGANISM: DROSOPHILA
; US-11-097-143-17043

Query Match      87.0%; Score 40; DB 6; Length 481;
Best Local Similarity 87.5%; Pred. No. 34;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 LODIETC 9
Db      308 LODIELTC 315

RESULT 17
US-10-243-552-539
; Sequence 539, Application US/10243552
; Publication No. US20030224379A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Weng, Gezhi
; APPLICANT: Ma, Yundong
; TITLE OF INVENTION: Novel Nucleic Acids and
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 998
; SOFTWARE: pc_FL_genes Version 5.0
; SEQ ID NO 539
```

```
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-243-552-539

Query Match      84.8%; Score 39; DB 4; Length 282;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLQDIETC 9
Db      116 SLQDIDLTC 124

RESULT 18
US-10-296-734-1354
; Sequence 1354, Application US/10296734
; Publication No. US20040054137A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Scott A
; APPLICANT: Ramshaw, Ian A
; TITLE OF INVENTION: Synthetic molecules and uses therefor
; FILE REFERENCE: Savine
; CURRENT APPLICATION NUMBER: US/10/296,734
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: AU PQT761/00
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 1507
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1354
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: PRAME segment 16
; US-10-296-734-1354

Query Match      82.6%; Score 38; DB 4; Length 30;
Best Local Similarity 55.6%; Pred. No. 4;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLQDIETC 9
Db      11 SLQDLEVC 19

RESULT 19
US-10-450-763-42351
; Sequence 42351, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: HySeq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 09/649,167
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42351
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-450-763-42351

Query Match      82.6%; Score 38; DB 5; Length 378;
Best Local Similarity 55.6%; Pred. No. 65;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SL0DIEITC 9
      |::|::|
Db      329 SIEDLEVTG 337

RESULT 20
US-10-450-763-42322
; Sequence 42322, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hysq, Inc
; FILE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42322
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-42322

Query Match      82.6%; Score 38; DB 5; Length 388;
Best Local Similarity 55.6%; Pred. No. 67;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      |::|::|
Db      329 SIEDLEVTG 337

RESULT 21
US-10-097-340-254
; Sequence 254, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVARAPU
; APPLICANT: Sebastian HOERSCH
; APPLICANT: Shubhangi KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. BAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: Mri-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26

; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 254
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-340-254

Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      |::|::|
Db      234 SIEDLEVTG 242

RESULT 22
US-10-157-031-44
; Sequence 44, Application US/10157031
; Publication No. US2003010890A1
; GENERAL INFORMATION:
; APPLICANT: Baranova, A. V.
; APPLICANT: Yankovsky, N. K.
; APPLICANT: Kozlov, A. P.
; APPLICANT: Lobashnev, A. V.
; APPLICANT: Kulkovskaya, L. L.
; TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences
; FILE REFERENCE: 2760-103
; CURRENT APPLICATION NUMBER: US/10/157,031
; CURRENT FILING DATE: 2002-05-30
; NUMBER OF SEQ ID NOS: 415
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-157-031-44

Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SL0DIEITC 9
      |::|::|
Db      234 SIEDLEVTG 242

RESULT 23
US-10-170-385-87
; Sequence 87, Application US/10170385
; Publication No. US20030203372A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Neil Raymond
; APPLICANT: Mundy, Christopher Robert
; APPLICANT: Kan, On
; APPLICANT: Harris, Robert Alan
; APPLICANT: White, Jonathan
; APPLICANT: Binley, Katie Mary
; APPLICANT: Rayner, William Nigel
; APPLICANT: Naylor, Stuart
; APPLICANT: Kingsman, Susan Mary
; APPLICANT: Krige, David
; TITLE OF INVENTION: ANALYSIS METHOD
; FILE REFERENCE: 53268200100
; CURRENT APPLICATION NUMBER: US/10/170,385
; CURRENT FILING DATE: 2002-06-12
```

```
; PRIOR APPLICATION NUMBER: PCT/GB02/01662
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: PCT/GB01/05458
; PRIOR FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 549
; SOFTWARE: PatSeq for Windows Version 4.0
; SEQ ID NO 87
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-170-385-87
```

```
Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIIRTC 9
         |::|::|
Db      234 SIEDLEVC 242
```

```
RESULT 24
US-10-117-937-77
; Sequence 77, Application US/10117937
; Publication No. US20030220239A1
; GENERAL INFORMATION:
; APPLICANT: CTL IMMUNO THERAPIES CORP.
; APPLICANT: SIMARD, John, J.L.
; APPLICANT: DIAMOND, David, C.
; APPLICANT: LIU, Liping
; APPLICANT: XIE, Zhidong
; TITLE OF INVENTION: EPTOPPE SEQUENCES
; FILE REFERENCE: CTIMM.027A
; CURRENT APPLICATION NUMBER: US/10/117,937
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/282,211
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/337,017
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: US 60/363,210
; PRIOR FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 602
; SOFTWARE: PatSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-117-937-77
```

```
Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIIRTC 9
         |::|::|
Db      234 SIEDLEVC 242
```

```
RESULT 25
US-10-173-999-2
; Sequence 2, Application US/10173999
; Publication No. US20040005563A1
; GENERAL INFORMATION:
; APPLICANT: Mack, David H.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Bos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Ovarian Cancer, Compositions
; TITLE OF INVENTION: and Methods of Screening for Modulators of Ovarian
; FILE REFERENCE: 018501-002420US
; CURRENT APPLICATION NUMBER: US/10/173,999
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: US 60/299,234
```

```
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: US 60/315,287
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/372,246
; PRIOR FILING DATE: 2001-04-12
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: Patencin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-173-999-2
```

```
Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIIRTC 9
         |::|::|
Db      234 SIEDLEVC 242
```

```
RESULT 26
US-10-058-270A-110
; Sequence 110, Application US/10058270A
; Publication No. US20040029114A1
; GENERAL INFORMATION:
; APPLICANT: Mack, David H.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Afar, Daniel
; APPLICANT: Bos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Breast Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer
; FILE REFERENCE: 018501-005210US
; CURRENT APPLICATION NUMBER: US/10/058,270A
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 60/263,965
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: US 60/265,928
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 09/829,472
; PRIOR FILING DATE: 2001-04-09
; PRIOR APPLICATION NUMBER: US 60/282,698
; PRIOR FILING DATE: 2001-04-09
; PRIOR APPLICATION NUMBER: US 60/288,590
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: US 60/294,443
; PRIOR FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: Patencin Ver. 2.1
; SEQ ID NO 110
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-058-270A-110
```

```
Query Match      82.6%; Score 38; DB 4; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIIRTC 9
         |::|::|
Db      234 SIEDLEVC 242
```

```
RESULT 27
US-10-296-734-830
; Sequence 830, Application US/10296734
; Publication No. US20040054137A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Scott A
```



APPLICANT: Ramshaw, Ian A  
TITLE OF INVENTION: Synthetic molecules and uses therefor  
FILE REFERENCE: Savine  
CURRENT APPLICATION NUMBER: US/10/296,734  
CURRENT FILING DATE: 2003-08-04  
PRIOR APPLICATION NUMBER: AU P07761/00  
PRIOR FILING DATE: 2000-05-26  
NUMBER OF SEQ ID NOS: 1507  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 830  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: PRAME consensus polypeptide  
US-10-296-734-830

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 28  
US-10-657-022-77  
Sequence 77, Application US/10657022  
Publication No. US20040180354A1  
GENERAL INFORMATION:  
APPLICANT: Simard, John J. L.  
APPLICANT: Diamond, David C.  
APPLICANT: Liu, Liping  
APPLICANT: Liu, Zheng  
TITLE OF INVENTION: EPTOPE SEQUENCES  
FILE REFERENCE: MANMK.032A  
CURRENT APPLICATION NUMBER: US/10/657,022  
CURRENT FILING DATE: 2003-09-04  
PRIOR APPLICATION NUMBER: 60/409123  
PRIOR FILING DATE: 2002-09-06  
NUMBER OF SEQ ID NOS: 610  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 77  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-657-022-77

Query Match 82.6%; Score 38; DB 4; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 29  
US-10-643-795A-92  
Sequence 92, Application US/10643795A  
Publication No. US20040241703A1  
GENERAL INFORMATION:  
APPLICANT: FREDERIC J. DESAUVAGE  
APPLICANT: GRETCHEN FRANTZ  
APPLICANT: KENNETH J. HILLAN  
APPLICANT: PAUL POLAKIS  
APPLICANT: ANDREW POLSON  
APPLICANT: VICTORIA SMITH  
APPLICANT: SUSAN D. SPENCER  
APPLICANT: THOMAS D. WU  
APPLICANT: ZEMIN ZHANG  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND

TITLE OF INVENTION: TREATMENT OF TUMOR  
FILE REFERENCE: P5026R1-US  
CURRENT APPLICATION NUMBER: US/10/643,795A  
CURRENT FILING DATE: 2003-08-19  
PRIOR APPLICATION NUMBER: US 60/404,809  
PRIOR FILING DATE: 2002-08-19  
PRIOR APPLICATION NUMBER: US 60/405,645  
PRIOR FILING DATE: 2002-08-21  
PRIOR APPLICATION NUMBER: US 60/413,192  
PRIOR FILING DATE: 2002-09-23  
PRIOR APPLICATION NUMBER: US 60/419,008  
PRIOR FILING DATE: 2002-10-15  
PRIOR APPLICATION NUMBER: US 60/426,847  
PRIOR FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: US 60/484,959  
PRIOR FILING DATE: 2003-07-02  
NUMBER OF SEQ ID NOS: 158  
SEQ ID NO 92  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-643-795A-92

Query Match 82.6%; Score 38; DB 5; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 30  
US-10-723-860-4358  
Sequence 4358, Application US/10723860  
Publication No. US20040253606A1  
GENERAL INFORMATION:  
APPLICANT: Aziz, Natasha  
APPLICANT: Giesburg, Wendy M.  
APPLICANT: Zlotnik, Albert  
TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
FILE REFERENCE: 05882.0193.NPUS01  
CURRENT APPLICATION NUMBER: US/10/723,860  
CURRENT FILING DATE: 2003-11-26  
PRIOR APPLICATION NUMBER: 60/429,739  
PRIOR FILING DATE: 2002-11-26  
NUMBER OF SEQ ID NOS: 8393  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 4358  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-723-860-4358

Query Match 82.6%; Score 38; DB 5; Length 509;  
Best Local Similarity 55.6%; Pred. No. 89;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
DB 234 SIEDLEVTC 242

RESULT 31  
US-10-482-029-136  
Sequence 136, Application US/10482029  
Publication No. US20050037445A1  
GENERAL INFORMATION:  
APPLICANT: ODIN medical A/S  
TITLE OF INVENTION: Oncology drug innovation  
FILE REFERENCE: P 573 PC00  
CURRENT APPLICATION NUMBER: US/10/482,029

```
/ CURRENT FILING DATE: 2003-12-29
/ NUMBER OF SEQ ID NOS: 437
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 136
/ LENGTH: 509
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-482-029-136
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETTC 9
         |::|::|::|
Db       234 STEDLEVTC 242
```

```
RESULT 32
US-10-948-518-92
/ Sequence 92, Application US/10948518
/ Publication No. US20050064492A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: FREDERIC J. DESAUVAGE
/ APPLICANT: GRETCHEN FRANTZ
/ APPLICANT: KENNETH J. HILLAN
/ APPLICANT: PAUL POLAKIS
/ APPLICANT: ANDREW POLSON
/ APPLICANT: VICTORIA SMITH
/ APPLICANT: SUSAN D. SPENCER
/ APPLICANT: THOMAS D. WU
```

```
/ APPLICANT: ZEMIN ZHANG
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
/ TITLE OF INVENTION: TREATMENT OF TUMOR
/ FILE REFERENCE: P5026R1-US
```

```
/ CURRENT APPLICATION NUMBER: US/10/948,518
```

```
/ CURRENT FILING DATE: 2004-09-22
```

```
/ PRIOR APPLICATION NUMBER: US/10/643,795
```

```
/ PRIOR FILING DATE: 2003-08-19
```

```
/ PRIOR APPLICATION NUMBER: US 60/404,809
```

```
/ PRIOR FILING DATE: 2002-08-19
```

```
/ PRIOR APPLICATION NUMBER: US 60/405,645
```

```
/ PRIOR FILING DATE: 2002-08-21
```

```
/ PRIOR APPLICATION NUMBER: US 60/413,192
```

```
/ PRIOR FILING DATE: 2002-09-23
```

```
/ PRIOR APPLICATION NUMBER: US 60/419,008
```

```
/ PRIOR FILING DATE: 2002-10-15
```

```
/ PRIOR APPLICATION NUMBER: US 60/426,847
```

```
/ PRIOR FILING DATE: 2002-11-15
```

```
/ PRIOR APPLICATION NUMBER: US 60/484,959
```

```
/ PRIOR FILING DATE: 2003-07-02
```

```
/ NUMBER OF SEQ ID NOS: 158
```

```
/ SEQ ID NO 92
```

```
/ LENGTH: 509
```

```
/ TYPE: PRT
```

```
/ ORGANISM: Homo sapien
```

```
US-10-948-518-92
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETTC 9
         |::|::|::|
Db       234 STEDLEVTC 242
```

```
RESULT 33
US-10-794-514A-451
/ Sequence 451, Application US/10794514A
/ Publication No. US20050112134A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Gradaris, Thomas
```

```
/ APPLICANT: Laue, Reiner
/ APPLICANT: Diegel, Michael
/ APPLICANT: Vidovic, Damir
/ TITLE OF INVENTION: Compositions and Methods Employing Alternative
/ TITLE OF INVENTION: Reading Frame Polypeptides for the Treatment of
/ TITLE OF INVENTION: Cancer and Infectious Disease
/ FILE REFERENCE: 1131,1003U
```

```
/ CURRENT APPLICATION NUMBER: US/10/794,514A
```

```
/ CURRENT FILING DATE: 2004-03-05
```

```
/ NUMBER OF SEQ ID NOS: 733
```

```
/ SOFTWARE: FastSeq for Windows Version 4.0
```

```
/ SEQ ID NO 451
```

```
/ LENGTH: 509
```

```
/ TYPE: PRT
```

```
/ ORGANISM: Human
```

```
US-10-794-514A-451
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETTC 9
         |::|::|::|
Db       234 STEDLEVTC 242
```

```
RESULT 34
US-10-871-708-8
```

```
/ Sequence 8, Application US/10871708
```

```
/ Publication No. US20050118186A1
```

```
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Chiang, Chih-Sheng
```

```
/ TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
```

```
/ TITLE OF INVENTION: ANTIGENS IN COMPOSITIONS FOR VARIOUS TYPES OF CANCERS
```

```
/ FILE REFERENCE: MANNK, 035A
```

```
/ CURRENT APPLICATION NUMBER: US/10/871,708
```

```
/ CURRENT FILING DATE: 2004-06-17
```

```
/ PRIOR APPLICATION NUMBER: 60/479,554
```

```
/ PRIOR FILING DATE: 2003-06-17
```

```
/ NUMBER OF SEQ ID NOS: 18
```

```
/ SOFTWARE: FastSeq for Windows Version 4.0
```

```
/ SEQ ID NO 8
```

```
/ LENGTH: 509
```

```
/ TYPE: PRT
```

```
/ ORGANISM: Preferentially expressed antigen in melanoma
```

```
US-10-871-708-8
```

```
Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETTC 9
         |::|::|::|
Db       234 STEDLEVTC 242
```

```
RESULT 35
US-10-756-149-5765
```

```
/ Sequence 5765, Application US/10756149
```

```
/ Publication No. US20050181375A1
```

```
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Aziz, Natsaba
```

```
/ APPLICANT: Zlotnik, Albert
```

```
/ TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
```

```
/ TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
```

```
/ FILE REFERENCE: file
```

```
/ CURRENT APPLICATION NUMBER: US/10/756,149
```

```
/ CURRENT FILING DATE: 2004-01-12
```

```
/ NUMBER OF SEQ ID NOS: 5818
```

```
/ SOFTWARE: PatentIn version 3.2
```

```
/ SEQ ID NO 5765
```

```
/ LENGTH: 509
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```
/ TYPE: PRT
```

```

; ORGANISM: Homo sapiens
US-10-756-149-5765

Query Match      82.6%; Score 38; DB 5; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 36
US-11-067-064-77
; Sequence 77, Application US/11067064
; Publication No. US2005014144A1
; GENERAL INFORMATION:
; APPLICANT: SIMARD, John, J.L.
; APPLICANT: DIAMOND, David, C.
; APPLICANT: LIU, Zheng
; TITLE OF INVENTION: EPTOPE SEQUENCES
; FILE REFERENCE: MANK.027C2
; CURRENT APPLICATION NUMBER: US/11/067,064
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US 60/282,211
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/337,017
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: US 60/363,210
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: US 10/117937
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 602
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-067-064-77

Query Match      82.6%; Score 38; DB 6; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 37
US-11-050-926-254
; Sequence 254, Application US/11050926
; Publication No. US20050214831A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVAPU
; APPLICANT: Sebastian HOESCH
; APPLICANT: Shudhangi KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. BAST, JR.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MRI-030
```

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; CURRENT APPLICATION NUMBER: US/11/050,926
; CURRENT FILING DATE: 2005-02-04
; PRIOR APPLICATION NUMBER: US/10/097,340
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 254
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-050-926-254

Query Match      82.6%; Score 38; DB 6; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 38
US-11-067-159-77
; Sequence 77, Application US/11067159
; Publication No. US20050221440A1
; GENERAL INFORMATION:
; APPLICANT: SIMARD, John, J.L.
; APPLICANT: DIAMOND, David, C.
; APPLICANT: LIU, Zheng
; TITLE OF INVENTION: EPTOPE SEQUENCES
; FILE REFERENCE: MANK.027C1
; CURRENT APPLICATION NUMBER: US/11/067,159
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US 60/282,211
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/337,017
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: US 60/363,210
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: US 10/117937
; PRIOR FILING DATE: 2002-04-04
; NUMBER OF SEQ ID NOS: 602
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-067-159-77

Query Match      82.6%; Score 38; DB 6; Length 509;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 SL0DIEITC 9
Db      234 SIEDLEVTC 242

RESULT 39
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US-11-097-143-42198
; Sequence 42198, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 4308
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42198
; LENGTH: 530
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-42198
```

```
Query Match      82.6%; Score 38; DB 6; Length 530;
Best Local Similarity 77.8%; Pred. No. 93;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 SLDDIEITC 9
Db      143 SLDDIEITC 151

RESULT 40
US-10-296-734-1454
; Sequence 1454, Application US/10296734
; Publication No. US20040054137A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Scott A
; APPLICANT: Ramshaw, Ian A
; TITLE OF INVENTION: Synthetic molecules and uses therefor
; FILE REFERENCE: Savine
; CURRENT APPLICATION NUMBER: US/10/296,734
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: AU P07761/00
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 1507
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1454
; LENGTH: 3541
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Melanoma cancer specific savine
US-10-296-734-1454
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Query Match      82.6%; Score 38; DB 4; Length 3541;
Best Local Similarity 55.6%; Pred. No. 6,9e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 SLDDIEITC 9
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```
Db      2171 SLDDIEITC 2179

RESULT 41
US-10-389-647-605
; Sequence 605, Application US/10389647
; Publication No. US20040033549A1
; GENERAL INFORMATION:
; APPLICANT: GREENBERG, E. Peter
; APPLICANT: SCHUSTER, Martin
; APPLICANT: LOSTROH, Candi
; TITLE OF INVENTION: QUORUM SENSING SIGNALING IN BACTERIA
; FILE REFERENCE: UI2-038CP
; CURRENT APPLICATION NUMBER: US/10/389,647
; CURRENT FILING DATE: 2003-03-14
; PRIOR APPLICATION NUMBER: 09/653730
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/153022
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 710
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 605
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-389-647-605
```

```
Query Match      78.3%; Score 36; DB 4; Length 99;
Best Local Similarity 75.0%; Pred. No. 38;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 LDDIEITC 9
Db      4 LDDIEITC 11
```

```
RESULT 42
US-10-767-701-58324
; Sequence 58324, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(5353)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 58324
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 30978582.pep
US-10-767-701-58324
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```
Query Match      78.3%; Score 36; DB 4; Length 162;
Best Local Similarity 62.5%; Pred. No. 64;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 LDDIEITC 9
Db      102 LDDIEITC 109
```

```
RESULT 43
US-10-437-963-184385
; Sequence 184385, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
```

```

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 184385
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_81382C.1.pep
US-10-437-963-184385

Query Match          78.3%; Score 36; DB 4; Length 454;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDIETC 9
Db 94 LQDIETC 101

RESULT 44
US-10-425-115-227314
; Sequence 227314, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227314
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_138903C.1.pep
US-10-425-115-227314

Query Match          78.3%; Score 36; DB 4; Length 462;
Best Local Similarity 62.5%; Pred. No. 2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDIETC 9
Db 102 LQDIETC 109

RESULT 45
US-10-767-701-31617
; Sequence 31617, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
```

```

; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 31617
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C101117_1.pep
US-10-767-701-31617

Query Match          76.1%; Score 35; DB 4; Length 67;
Best Local Similarity 77.8%; Pred. No. 39;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIETC 9
Db 13 SLQDIETC 21

RESULT 46
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SABIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-29

Query Match          76.1%; Score 35; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLQDIETC 9
Db 24 SLQDIETC 32

RESULT 47
US-10-425-115-246840
; Sequence 246840, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 246840
; LENGTH: 179
; TYPE: PRT
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/ ORGANISM: Zea mays
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(179)
/ OTHER INFORMATION: unsure at all Xaa locations
/ FEATURE:
/ OTHER INFORMATION: Clone ID: MRT4577_156700C.1.pep
US-10-425-115-246840
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```
Query Match          76.1%; Score 35; DB 4; Length 179;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 SLQDIETC 9
       : |||||
Db      164 TLTDILTC 172
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RESULT 48
US-10-424-599-205020
/ Sequence 205020, Application US/10424599
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J
/ APPLICANT: Kovalic, David K
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 205020
/ LENGTH: 195
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(195)
/ OTHER INFORMATION: unsure at all Xaa locations
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_27160C.1.pep
US-10-424-599-205020
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Query Match          76.1%; Score 35; DB 4; Length 195;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 SLQDIETC 9
       : |||||
Db      158 SLQDLDLSC 166
```

```
RESULT 49
US-10-032-585-7389
/ Sequence 7389, Application US/10032585
/ Publication No. US20030180953A1
/ GENERAL INFORMATION:
/ APPLICANT: Terry, Roemer D.
/ APPLICANT: Bo, Jiahng
/ APPLICANT: Charles, Boone
/ APPLICANT: Howard, Bussey
/ TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
/ FILE REFERENCE: 10182-005-999
/ CURRENT APPLICATION NUMBER: US/10/032,585
/ NUMBER OF SEQ ID NOS: 8000
/ SOFTWARE: Patentin version 3.1
/ SEQ ID NO 7389
/ LENGTH: 1070
/ TYPE: PRT
/ ORGANISM: Candida albicans
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```
US-10-032-585-7389
```

```
Query Match          76.1%; Score 35; DB 4; Length 1070;
Best Local Similarity 85.7%; Pred. No. 7.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 QDIETC 9
       : |||||
Db      593 EDIETC 599
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```
RESULT 50
US-10-437-963-131742
/ Sequence 131742, Application US/10437963
/ Publication No. US20040123343A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Wu, Wei
/ APPLICANT: Bouharov, Andrey A.
/ APPLICANT: Barbazuk, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53221)B
/ CURRENT APPLICATION NUMBER: US/10/437,963
/ NUMBER OF SEQ ID NOS: 2003-05-14
/ SEQ ID NO 131742
/ LENGTH: 2478
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT4530_3377C.1.pep
US-10-437-963-131742
```

```
Query Match          76.1%; Score 35; DB 4; Length 2478;
Best Local Similarity 87.5%; Pred. No. 1.8e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      2 LQDIETC 9
       : |||||
Db      2230 LQDIETC 2237
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Search completed: May 5, 2006, 07:55:53
Job time : 60.9 secs
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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds  
(Without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-22

Perfect score: 46

Sequence: 1 SIQDIRTC 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

1: Published Applications\_AA\_New:\*  
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3: /SIDS5/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*  
4: /SIDS5/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*  
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12: /SIDS5/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	100.0	15	9	US-10-530-061-1659
2	46	100.0	158	9	US-10-530-253-15
3	38	82.6	509	11	US-11-155-288-8
4	36	78.3	10	9	US-10-530-061-55
5	36	78.3	10	9	US-10-530-061-112
6	35	76.1	158	9	US-10-530-253-20
7	35	76.1	673	11	US-11-188-298-1612
8	34	73.9	366	9	US-10-329-258-27
9	34	73.9	366	11	US-11-000-463-410
10	34	73.9	366	11	US-11-000-463-882
11	34	73.9	390	11	US-11-087-099-4671
12	33	71.7	10	9	US-10-530-061-517
13	33	71.7	143	9	US-10-995-951A-28
14	33	71.7	143	9	US-10-995-951A-30
15	33	71.7	143	11	US-11-067-425A-63
16	33	71.7	143	11	US-11-067-425A-65
17	33	71.7	633	11	US-11-188-298-2647
18	32	69.6	158	9	US-10-530-253-19
19	32	69.6	210	11	US-11-096-568A-22480
20	32	69.6	243	11	US-11-096-568A-22479
21	32	69.6	304	11	US-11-096-568A-22478

22	32	69.6	306	11	US-11-096-568A-19986	Sequence 19986, A
23	32	69.6	307	11	US-11-096-568A-19985	Sequence 19985, A
24	32	69.6	314	11	US-11-096-568A-19984	Sequence 19984, A
25	32	69.6	322	11	US-11-096-568A-5395	Sequence 5395, Ap
26	32	69.6	329	11	US-11-096-568A-5395	Sequence 5395, Ap
27	32	69.6	339	11	US-11-096-568A-5394	Sequence 5394, Ap
28	31	67.4	328	11	US-11-188-298-19258	Sequence 19258, A
29	31	67.4	331	11	US-11-096-568A-10573	Sequence 10573, A
30	31	67.4	338	11	US-11-096-568A-10572	Sequence 10572, A
31	31	67.4	381	11	US-11-096-568A-10571	Sequence 10571, A
32	31	67.4	387	11	US-11-087-099-1194	Sequence 1194, Ap
33	31	67.4	387	11	US-11-087-099-9326	Sequence 9326, Ap
34	31	67.4	387	11	US-11-087-099-10451	Sequence 10451, A
35	30	65.2	292	11	US-11-129-143-96	Sequence 96, App1
36	30	65.2	318	11	US-11-045-004-356	Sequence 356, App1
37	30	65.2	377	11	US-11-087-099-1029	Sequence 1029, Ap
38	30	65.2	378	11	US-11-087-099-8872	Sequence 8872, Ap
39	30	65.2	378	11	US-11-087-099-11183	Sequence 11183, A
40	30	65.2	380	11	US-11-087-099-3689	Sequence 3689, Ap
41	30	65.2	382	11	US-11-087-099-10593	Sequence 10593, A
42	30	65.2	382	11	US-11-087-099-12203	Sequence 12203, A
43	30	65.2	1206	9	US-10-763-712A-16	Sequence 16, App1
44	30	65.2	1206	9	US-10-763-712A-99	Sequence 99, App1
45	30	65.2	1210	11	US-11-191-374-10	Sequence 10, App1
46	30	65.2	1210	11	US-11-191-375-10	Sequence 10, App1
47	30	65.2	1210	11	US-11-191-588-10	Sequence 2, App1
48	30	65.2	2228	9	US-10-511-096-2	Sequence 2, App1
49	30	65.2	2230	9	US-10-511-096-4	Sequence 4, App1
50	30	65.2	2250	9	US-10-511-096-6	Sequence 6, App1
51	30	65.2	2252	9	US-10-511-096-8	Sequence 8, App1
52	29	63.0	95	9	US-10-219-784-82	Sequence 82, App1
53	29	63.0	95	9	US-10-219-061-82	Sequence 82, App1
54	29	63.0	95	9	US-10-219-062-82	Sequence 82, App1
55	29	63.0	95	9	US-10-219-064-82	Sequence 82, App1
56	29	63.0	95	9	US-10-233-134-82	Sequence 82, App1
57	29	63.0	206	11	US-11-096-568A-7790	Sequence 7790, Ap
58	29	63.0	224	11	US-11-096-568A-7789	Sequence 7789, Ap
59	29	63.0	242	9	US-10-467-657-5676	Sequence 5676, App1
60	29	63.0	242	9	US-11-129-143-95	Sequence 95, App1
61	29	63.0	314	11	US-11-108-172-1110	Sequence 1110, Ap
62	29	63.0	314	11	US-11-203-526-42	Sequence 42, App1
63	29	63.0	348	11	US-11-087-099-10136	Sequence 10136, A
64	29	63.0	381	11	US-11-087-099-3485	Sequence 3485, Ap
65	29	63.0	457	11	US-11-188-298-1598	Sequence 1598, Ap
66	29	63.0	466	11	US-11-188-298-855	Sequence 855, App
67	29	63.0	486	11	US-11-079-463-6559	Sequence 6559, App
68	29	63.0	578	11	US-11-087-099-3359	Sequence 3359, App
69	29	63.0	592	11	US-11-087-099-6611	Sequence 6611, App
70	29	63.0	592	11	US-11-087-099-10243	Sequence 10243, A
71	29	63.0	703	11	US-11-069-642-113	Sequence 113, App
72	29	63.0	703	11	US-11-119-569-19	Sequence 19, App1
73	29	63.0	89	11	US-11-145-631-14	Sequence 14, App1
74	28	60.9	94	9	US-10-485-788A-802	Sequence 802, App
75	28	60.9	94	11	US-11-053-076-184	Sequence 184, App
76	28	60.9	100	11	US-11-207-078-192	Sequence 192, App
77	28	60.9	103	11	US-11-000-463-740	Sequence 740, App
78	28	60.9	111	11	US-11-000-463-268	Sequence 268, App
79	28	60.9	122	11	US-11-019-711-103	Sequence 103, App
80	28	60.9	124	11	US-11-096-568A-14484	Sequence 14484, A
81	28	60.9	132	11	US-11-096-568A-14483	Sequence 14483, A
82	28	60.9	135	11	US-11-096-568A-14922	Sequence 14922, A
83	28	60.9	165	11	US-11-096-568A-348	Sequence 348, App
84	28	60.9	166	11	US-11-079-463-7852	Sequence 7852, App
85	28	60.9	173	11	US-11-070-575-5	Sequence 5, App1
86	28	60.9	185	11	US-11-096-568A-348	Sequence 348, App
87	28	60.9	185	11	US-11-096-568A-349	Sequence 349, App
88	28	60.9	185	11	US-11-096-568A-349	Sequence 349, App
89	28	60.9	187	11	US-11-096-568A-31916	Sequence 31916, A
90	28	60.9	193	11	US-11-096-568A-19921	Sequence 19921, A
91	28	60.9	204	11	US-11-172-740-86	Sequence 86, App1
92	28	60.9	204	11	US-11-172-740-921	Sequence 921, App
93	28	60.9	211	11	US-11-096-568A-31915	Sequence 31915, A
94	28	60.9	218	11	US-11-218-821-8	Sequence 8, App1

95	28	60.9	218	11	US-11-208-422-36	Sequence 36, Appl	168	27	58.7	215	9	US-10-374-954-9	Sequence 9, Appl1
96	28	60.9	242	9	US-10-821-234-1078	Sequence 1078, Ap	169	27	58.7	215	11	US-11-188-288-19051	Sequence 19051, A
97	28	60.9	255	11	US-11-188-298-4249	Sequence 4249, Ap	170	27	58.7	221	11	US-11-096-568A-9521	Sequence 9521, Ap
98	28	60.9	258	11	US-11-096-568A-14920	Sequence 14920, A	171	27	58.7	221	11	US-11-172-740-1624	Sequence 1624, Ap
99	28	60.9	270	9	US-10-467-657-210	Sequence 210, App	172	27	58.7	227	11	US-11-104-111-5	Sequence 5, Appl1
100	28	60.9	270	9	US-10-467-657-6474	Sequence 6474, Ap	173	27	58.7	228	11	US-11-104-111-4	Sequence 4, Appl1
101	28	60.9	312	11	US-11-087-099-427	Sequence 427, App	174	27	58.7	234	11	US-11-172-740-366	Sequence 366, App
102	28	60.9	312	11	US-11-096-568A-31914	Sequence 31914, A	175	27	58.7	237	9	US-10-793-628-3288	Sequence 3288, Ap
103	28	60.9	327	9	US-10-467-657-34	Sequence 34, Appl	176	27	58.7	246	11	US-11-098-686-11424	Sequence 11424, A
104	28	60.9	328	11	US-11-024-959-517	Sequence 517, App	177	27	58.7	246	11	US-11-232-406A-14	Sequence 14, Appl
105	28	60.9	329	11	US-11-096-568A-347	Sequence 347, App	178	27	58.7	248	11	US-11-104-111-21	Sequence 21, Appl
106	28	60.9	331	11	US-11-096-568A-346	Sequence 346, App	179	27	58.7	261	9	US-10-986-405-233	Sequence 233, Appl
107	28	60.9	335	11	US-11-072-175-245	Sequence 245, App	180	27	58.7	263	11	US-11-096-568A-30386	Sequence 30386, A
108	28	60.9	341	9	US-10-467-657-8374	Sequence 8374, Ap	181	27	58.7	272	11	US-11-096-568A-9520	Sequence 9520, Ap
109	28	60.9	344	11	US-11-144-747A-2	Sequence 2, Appl1	182	27	58.7	279	11	US-11-079-463-5593	Sequence 5593, Ap
110	28	60.9	347	11	US-11-098-686-11196	Sequence 11196, A	183	27	58.7	285	11	US-11-188-288-17365	Sequence 17365, A
111	28	60.9	359	9	US-10-888-962-5	Sequence 5, Appl1	184	27	58.7	299	9	US-10-455-772-954	Sequence 954, App
112	28	60.9	367	11	US-11-096-568A-25243	Sequence 25243, A	185	27	58.7	305	9	US-10-793-628-2062	Sequence 2062, Ap
113	28	60.9	369	9	US-10-517-939-16	Sequence 16, Appl	186	27	58.7	307	11	US-11-098-686-10143	Sequence 10143, A
114	28	60.9	370	11	US-11-096-568A-15117	Sequence 15117, A	187	27	58.7	314	9	US-10-878-558A-39	Sequence 39, Appl
115	28	60.9	379	11	US-11-096-568A-25242	Sequence 25242, A	188	27	58.7	314	11	US-11-096-568A-30385	Sequence 30385, A
116	28	60.9	382	11	US-11-096-568A-15116	Sequence 15116, A	189	27	58.7	321	11	US-11-022-477-3	Sequence 3, Appl1
117	28	60.9	414	11	US-11-096-568A-25241	Sequence 25241, A	190	27	58.7	321	11	US-11-096-568A-10522	Sequence 10522, A
118	28	60.9	417	11	US-11-096-568A-15115	Sequence 15115, A	191	27	58.7	330	11	US-11-188-288-18370	Sequence 18370, A
119	28	60.9	452	11	US-11-087-099-2368	Sequence 2368, Ap	192	27	58.7	333	11	US-11-096-568A-30384	Sequence 30384, A
120	28	60.9	452	11	US-11-087-099-8208	Sequence 8208, Ap	193	27	58.7	338	9	US-10-914-165-37	Sequence 37, Appl
121	28	60.9	465	8	US-10-505-928-549	Sequence 549, App	194	27	58.7	338	9	US-10-821-234-118	Sequence 14,8, Ap
122	28	60.9	465	11	US-11-186-284-197	Sequence 197, App	195	27	58.7	338	9	US-10-986-405-266	Sequence 256, App
123	28	60.9	467	11	US-11-264-096-1976	Sequence 1976, App	196	27	58.7	338	11	US-11-186-284-109	Sequence 109, App
124	28	60.9	475	11	US-11-096-568A-10965	Sequence 10965, A	197	27	58.7	338	11	US-11-188-288-13422	Sequence 13422, A
125	28	60.9	478	11	US-11-096-568A-10964	Sequence 10964, A	198	27	58.7	344	11	US-11-188-288-20971	Sequence 20971, A
126	28	60.9	485	9	US-10-793-626-1346	Sequence 1346, Ap	199	27	58.7	344	11	US-11-096-568A-10521	Sequence 10521, A
127	28	60.9	489	11	US-11-188-298-20168	Sequence 20168, A	200	27	58.7	350	11	US-11-087-099-915	Sequence 315, App
128	28	60.9	508	11	US-11-096-568A-10963	Sequence 10963, A	201	27	58.7	352	11	US-11-096-568A-10520	Sequence 10520, A
129	28	60.9	531	11	US-11-079-463-8437	Sequence 8437, Ap	202	27	58.7	359	9	US-10-455-772-952	Sequence 952, App
130	28	60.9	572	9	US-10-784-004-1170	Sequence 1170, Ap	203	27	58.7	363	9	US-10-455-772-950	Sequence 950, App
131	28	60.9	584	11	US-11-024-959-380	Sequence 380, App	204	27	58.7	363	11	US-11-188-288-8651	Sequence 8651, Ap
132	28	60.9	610	11	US-11-072-512-2672	Sequence 2672, Ap	205	27	58.7	363	11	US-11-188-288-19254	Sequence 19254, A
133	28	60.9	633	11	US-11-063-343-26	Sequence 26, Appl	206	27	58.7	366	8	US-10-505-928-33	Sequence 39, Appl
134	28	60.9	680	9	US-10-506-454-1090	Sequence 1090, Ap	207	27	58.7	370	10	US-11-096-568A-15423	Sequence 15423, A
135	28	60.9	748	11	US-11-119-569-2	Sequence 2, Appl1	208	27	58.7	375	9	US-10-455-772-942	Sequence 942, App
136	28	60.9	747	9	US-10-784-004-636	Sequence 636, App	209	27	58.7	375	9	US-10-455-772-948	Sequence 948, App
137	28	60.9	747	9	US-10-784-004-720	Sequence 720, App	210	27	58.7	382	11	US-11-096-568A-8228	Sequence 8228, Ap
138	28	60.9	747	9	US-10-784-004-721	Sequence 721, App	211	27	58.7	382	11	US-11-096-568A-15422	Sequence 15422, A
139	28	60.9	750	11	US-11-225-354-1	Sequence 1, Appl1	212	27	58.7	384	9	US-10-523-038-1	Sequence 1, Appl1
140	28	60.9	840	11	US-11-207-078-190	Sequence 190, App	213	27	58.7	384	11	US-11-129-442-31	Sequence 21, Appl
141	28	60.9	840	11	US-11-188-298-10778	Sequence 10778, A	214	27	58.7	384	11	US-11-129-442-11	Sequence 39, Appl
142	28	60.9	872	11	US-11-207-078-221	Sequence 221, App	215	27	58.7	387	11	US-11-129-442-11	Sequence 41, Appl
143	28	60.9	902	11	US-11-072-512-2987	Sequence 2987, Ap	216	27	58.7	387	11	US-11-188-288-20266	Sequence 20266, A
144	28	60.9	953	9	US-10-966-846-2	Sequence 2, Appl1	217	27	58.7	398	11	US-11-096-568A-5010	Sequence 5010, Ap
145	28	60.9	957	11	US-11-098-686-11422	Sequence 11422, A	218	27	58.7	412	9	US-10-506-454-866	Sequence 866, App
146	28	60.9	1267	11	US-11-109-156-35	Sequence 35, Appl	219	27	58.7	413	11	US-11-096-568A-8227	Sequence 8227, Ap
147	28	60.9	1326	11	US-11-079-463-5820	Sequence 5820, Ap	220	27	58.7	417	11	US-11-096-568A-15421	Sequence 15421, A
148	28	60.9	3375	11	US-11-044-111-23	Sequence 23, Appl	221	27	58.7	424	11	US-11-096-568A-5009	Sequence 5009, Ap
149	27	58.7	25	10	US-11-219-563-115	Sequence 115, App	222	27	58.7	426	11	US-11-188-288-8593	Sequence 8593, Ap
150	27	58.7	55	11	US-11-218-813-115	Sequence 115, App	223	27	58.7	428	11	US-11-188-288-22499	Sequence 22499, A
151	27	58.7	57	11	US-11-000-463-937	Sequence 937, App	224	27	58.7	430	11	US-11-045-004-934	Sequence 934, App
152	27	58.7	82	10	US-11-219-563-119	Sequence 119, App	225	27	58.7	432	11	US-11-096-568A-5008	Sequence 5008, Ap
153	27	58.7	82	11	US-11-218-813-119	Sequence 119, App	226	27	58.7	443	11	US-11-188-288-3245	Sequence 3245, Ap
154	27	58.7	109	11	US-11-087-099-3477	Sequence 3477, Ap	227	27	58.7	448	11	US-11-096-568A-8226	Sequence 8226, Ap
155	27	58.7	111	9	US-10-982-440-14	Sequence 14, Appl	228	27	58.7	452	9	US-10-506-454-444	Sequence 444, App
156	27	58.7	121	10	US-11-219-563-84	Sequence 84, Appl	229	27	58.7	457	11	US-11-037-243-110	Sequence 110, App
157	27	58.7	121	10	US-11-219-563-89	Sequence 89, Appl	230	27	58.7	460	11	US-11-098-686-10902	Sequence 10902, A
158	27	58.7	121	10	US-11-219-563-90	Sequence 90, Appl	231	27	58.7	471	11	US-11-072-512-3482	Sequence 3482, Ap
159	27	58.7	121	11	US-11-218-813-89	Sequence 89, Appl	232	27	58.7	472	9	US-10-455-772-56	Sequence 56, Appl
160	27	58.7	121	11	US-11-218-813-84	Sequence 84, Appl	233	27	58.7	477	9	US-10-520-820-13	Sequence 13, Appl
161	27	58.7	121	11	US-11-218-813-90	Sequence 90, Appl	234	27	58.7	483	11	US-11-037-829A-5	Sequence 5, Appl1
162	27	58.7	151	9	US-10-530-253-21	Sequence 21, Appl	235	27	58.7	499	11	US-11-288-493-20	Sequence 20, Appl
163	27	58.7	160	9	US-10-530-253-25	Sequence 25, Appl	236	27	58.7	501	11	US-11-087-099-5718	Sequence 5718, Ap
164	27	58.7	199	9	US-10-506-454-480	Sequence 480, App	237	27	58.7	503	11	US-11-188-288-16268	Sequence 16268, A
165	27	58.7	201	11	US-11-055-822-200	Sequence 200, App	238	27	58.7	506	11	US-11-013-247A-4	Sequence 4, Appl1
166	27	58.7	201	11	US-11-239-674-84	Sequence 84, Appl	239	27	58.7	506	11	US-11-087-099-4103	Sequence 4103, Ap
167	27	58.7	208	11	US-11-188-298-6198	Sequence 6198, Ap	240	27	58.7	511	11	US-11-012-762-48	Sequence 48, Appl



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242	27	58.7	512	11	US-11-045-004-874	Sequence 874, App	315	26	56.5	106	11	US-11-064-174-50	Sequence 50, App1
243	27	58.7	513	9	US-10-455-772-54	Sequence 54, App1	316	26	56.5	106	11	US-11-049-536-48	Sequence 488, App
244	27	58.7	513	9	US-10-455-772-58	Sequence 58, App1	317	26	56.5	106	11	US-11-199-733-48	Sequence 488, App
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248	27	58.7	513	9	US-10-455-772-66	Sequence 66, App1	321	26	56.5	110	11	US-11-127-677-17	Sequence 37, App1
249	27	58.7	513	9	US-10-455-772-68	Sequence 68, App1	322	26	56.5	111	11	US-11-049-536-66	Sequence 66, App1
250	27	58.7	513	9	US-10-455-772-70	Sequence 70, App1	323	26	56.5	111	11	US-11-049-536-86	Sequence 86, App1
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252	27	58.7	513	9	US-10-455-772-74	Sequence 74, App1	325	26	56.5	111	11	US-11-049-536-94	Sequence 94, App1
253	27	58.7	522	9	US-10-517-939-286	Sequence 286, App	326	26	56.5	111	11	US-11-049-536-100	Sequence 100, App
254	27	58.7	531	11	US-11-087-099-7252	Sequence 7252, App	327	26	56.5	111	11	US-11-199-739-66	Sequence 66, App1
255	27	58.7	542	11	US-11-031-206-110	Sequence 110, App	328	26	56.5	111	11	US-11-199-733-86	Sequence 86, App1
256	27	58.7	549	11	US-11-031-206-116	Sequence 116, App	329	26	56.5	111	11	US-11-199-733-90	Sequence 90, App1
257	27	58.7	571	11	US-11-072-512-3779	Sequence 3779, Ap	330	26	56.5	111	11	US-11-199-739-100	Sequence 100, App
258	27	58.7	577	9	US-10-493-909-66	Sequence 66, App1	331	26	56.5	112	11	US-11-049-536-70	Sequence 70, App1
259	27	58.7	593	11	US-11-087-099-3671	Sequence 3671, Ap	332	26	56.5	112	11	US-11-049-536-82	Sequence 82, App1
260	27	58.7	593	11	US-11-188-298-14439	Sequence 14439, A	333	26	56.5	112	11	US-11-199-733-70	Sequence 70, App1
261	27	58.7	594	11	US-11-087-099-9040	Sequence 9040, Ap	334	26	56.5	112	11	US-11-199-733-82	Sequence 82, App1
262	27	58.7	594	11	US-11-188-298-8366	Sequence 8366, Ap	335	26	56.5	112	11	US-11-199-733-82	Sequence 82, App1
263	27	58.7	598	11	US-11-079-463-5985	Sequence 5985, Ap	336	26	56.5	113	9	US-10-453-372-262	Sequence 262, App
264	27	58.7	618	9	US-10-915-002-335	Sequence 335, App	337	26	56.5	113	11	US-11-049-536-58	Sequence 58, App1
265	27	58.7	648	11	US-11-096-568A-28888	Sequence 28888, A	338	26	56.5	113	11	US-11-049-536-104	Sequence 104, App
266	27	58.7	648	11	US-11-188-298-695	Sequence 695, App	339	26	56.5	113	11	US-11-199-739-58	Sequence 58, App1
267	27	58.7	653	11	US-11-079-463-8199	Sequence 8199, Ap	340	26	56.5	113	11	US-11-199-733-62	Sequence 62, App1
268	27	58.7	686	11	US-11-096-568A-14747	Sequence 14747, A	341	26	56.5	113	11	US-11-199-739-104	Sequence 104, App
269	27	58.7	726	11	US-11-072-512-2042	Sequence 2042, Ap	342	26	56.5	114	9	US-10-454-437-204	Sequence 204, App
270	27	58.7	747	9	US-10-784-004-315	Sequence 315, App	343	26	56.5	114	11	US-11-188-298-3379	Sequence 3379, Ap
271	27	58.7	747	9	US-10-784-004-399	Sequence 399, App	344	26	56.5	121	11	US-11-188-298-12838	Sequence 12838, A
272	27	58.7	747	9	US-10-784-004-400	Sequence 400, App	345	26	56.5	121	11	US-10-993-943-106	Sequence 106, App
273	27	58.7	758	11	US-11-024-959-347	Sequence 347, App	346	26	56.5	122	9	US-10-993-943-106	Sequence 106, App
274	27	58.7	759	11	US-11-096-568A-29706	Sequence 29706, A	347	26	56.5	122	11	US-11-072-512-3515	Sequence 3515, Ap
275	27	58.7	761	11	US-11-096-568A-14745	Sequence 14746, A	348	26	56.5	124	11	US-11-105-041-1	Sequence 1, App1
276	27	58.7	764	11	US-11-096-568A-29705	Sequence 29705, A	349	26	56.5	137	11	US-11-188-298-7739	Sequence 7739, Ap
277	27	58.7	767	11	US-11-096-568A-29704	Sequence 29704, A	350	26	56.5	137	11	US-11-188-298-18961	Sequence 18961, A
278	27	58.7	817	9	US-10-793-626-2948	Sequence 2948, Ap	351	26	56.5	139	9	US-10-995-651-613	Sequence 613, App
279	27	58.7	825	11	US-11-087-099-1341	Sequence 1341, Ap	352	26	56.5	139	11	US-11-169-041-201	Sequence 201, App
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281	27	58.7	841	11	US-11-188-298-22093	Sequence 22093, A	354	26	56.5	142	9	US-10-995-951A-29	Sequence 29, App1
282	27	58.7	867	11	US-11-072-512-3052	Sequence 3052, Ap	355	26	56.5	142	11	US-11-067-425A-1	Sequence 1, App1
283	27	58.7	879	11	US-11-045-004-1086	Sequence 1086, Ap	356	26	56.5	142	11	US-11-067-425A-64	Sequence 64, App1
284	27	58.7	911	11	US-11-096-568A-14745	Sequence 14745, A	357	26	56.5	144	11	US-11-188-298-13642	Sequence 13642, A
285	27	58.7	921	11	US-11-188-298-21552	Sequence 21552, A	358	26	56.5	147	11	US-11-188-298-17883	Sequence 17883, A
286	27	58.7	923	11	US-11-188-298-9370	Sequence 9370, Ap	359	26	56.5	149	9	US-10-995-951A-27	Sequence 27, App1
287	27	58.7	927	11	US-11-188-298-9708	Sequence 9708, Ap	360	26	56.5	149	9	US-10-530-253-4	Sequence 24, App1
288	27	58.7	934	11	US-11-046-653-4	Sequence 4, App1	361	26	56.5	149	11	US-11-067-425A-4	Sequence 4, App1
289	27	58.7	935	9	US-10-330-773-59	Sequence 59, App1	362	26	56.5	158	11	US-11-188-298-18071	Sequence 18071, A
290	27	58.7	945	9	US-10-131-826A-146	Sequence 146, App	363	26	56.5	166	11	US-11-188-298-2268	Sequence 2268, Ap
291	27	58.7	945	9	US-10-973-115B-146	Sequence 146, App	364	26	56.5	168	11	US-11-087-099-4206	Sequence 4206, Ap
292	27	58.7	945	9	US-10-137-873A-146	Sequence 146, App	365	26	56.5	173	11	US-11-188-298-8372	Sequence 8372, Ap
293	27	58.7	945	9	US-10-152-370-146	Sequence 146, App	366	26	56.5	179	11	US-11-087-099-3173	Sequence 3173, Ap
294	27	58.7	945	11	US-11-019-711-38	Sequence 38, App1	367	26	56.5	197	11	US-11-188-298-7422	Sequence 7422, Ap
295	27	58.7	945	11	US-11-183-136-20	Sequence 20, App1	368	26	56.5	202	11	US-11-055-822-532	Sequence 532, App
296	27	58.7	945	11	US-11-290-153-146	Sequence 146, App	369	26	56.5	204	11	US-11-096-568A-21632	Sequence 21632, A
297	27	58.7	947	9	US-10-493-537-17	Sequence 17, App1	370	26	56.5	204	11	US-11-172-740-87	Sequence 87, App1
298	27	58.7	963	11	US-11-188-298-55124	Sequence 8880, A	371	26	56.5	204	11	US-11-172-740-88	Sequence 88, App1
299	27	58.7	970	11	US-11-188-298-8880	Sequence 1147, Ap	372	26	56.5	204	11	US-11-172-740-922	Sequence 922, App
300	27	58.7	976	11	US-11-188-298-1147	Sequence 1147, Ap	373	26	56.5	204	11	US-11-172-740-923	Sequence 923, App
301	27	58.7	976	11	US-11-188-298-15203	Sequence 15203, A	374	26	56.5	217	11	US-11-188-298-7973	Sequence 7973, App
302	27	58.7	1102	11	US-11-096-568A-30725	Sequence 30725, A	375	26	56.5	217	11	US-11-264-096-1131	Sequence 1131, Ap
303	27	58.7	1102	11	US-11-096-568A-30724	Sequence 30724, A	376	26	56.5	219	11	US-11-264-096-1129	Sequence 1129, Ap
304	27	58.7	1156	11	US-11-096-568A-30723	Sequence 30723, A	377	26	56.5	219	11	US-11-264-096-1130	Sequence 1130, Ap
305	27	58.7	1240	11	US-11-096-568A-30723	Sequence 30723, A	378	26	56.5	228	11	US-11-104-111-3	Sequence 3, App1
306	27	58.7	1390	11	US-11-063-343-35	Sequence 35, App1	379	26	56.5	231	11	US-11-172-740-1481	Sequence 1481, App
307	27	58.7	1839	11	US-11-087-099-9631	Sequence 9631, Ap	380	26	56.5	235	9	US-10-453-372-184	Sequence 1473, A
308	27	58.7	3475	11	US-11-087-099-10885	Sequence 10885, A	381	26	56.5	235	11	US-11-188-298-11473	Sequence 1182, A
309	27	58.7	3487	11	US-11-087-099-9068	Sequence 9068, A	382	26	56.5	240	11	US-11-172-740-1482	Sequence 1482, A
310	27	58.7	3487	11	US-11-087-099-10423	Sequence 10423, A	383	26	56.5	246	11	US-11-054-415-1980	Sequence 1980, Ap
311	26	56.5	58	9	US-10-207-797-154	Sequence 154, App	384	26	56.5	246	11	US-11-266-444-1980	Sequence 1257, Ap
312	26	56.5	58	9	US-10-207-797-119	Sequence 179, App	385	26	56.5	247	11	US-11-054-415-1257	Sequence 1257, Ap
313	26	56.5	66	11	US-11-156-084-55	Sequence 55, App1	386	26	56.5	247	11	US-11-172-740-1483	Sequence 1483, Ap

387	26	56.5	247	11	US-11-266-444-1257	Sequence 1257, Ap	460	26	56.5	461	11	US-11-019-711-96	Sequence 96, Appl
388	26	56.5	248	11	US-11-087-099-5363	Sequence 5363, Ap	461	26	56.5	464	9	US-10-453-372-772	Sequence 772, App
389	26	56.5	249	11	US-11-113-424-30	Sequence 30, Appl	462	26	56.5	464	9	US-10-453-372-774	Sequence 774, App
390	26	56.5	251	11	US-11-054-515-856	Sequence 856, App	463	26	56.5	464	9	US-10-063-703-104	Sequence 104, App
391	26	56.5	251	11	US-11-054-515-1232	Sequence 1232, Ap	464	26	56.5	466	9	US-10-194-487-316	Sequence 316, App
392	26	56.5	251	11	US-11-266-444-856	Sequence 856, App	465	26	56.5	466	9	US-10-195-889-316	Sequence 316, App
393	26	56.5	251	11	US-11-266-444-1232	Sequence 1232, Ap	466	26	56.5	466	9	US-10-195-889-316	Sequence 316, App
394	26	56.5	253	11	US-11-054-515-1526	Sequence 1526, Ap	467	26	56.5	466	9	US-10-195-889-316	Sequence 316, App
395	26	56.5	253	11	US-11-266-444-1526	Sequence 1526, Ap	468	26	56.5	466	11	US-11-102-240-104	Sequence 104, App
396	26	56.5	257	11	US-11-079-463-8138	Sequence 8138, Ap	469	26	56.5	466	11	US-11-103-195-104	Sequence 104, App
397	26	56.5	258	9	US-10-512-184-26	Sequence 26, Appl	470	26	56.5	472	9	US-10-511-989-163	Sequence 163, App
398	26	56.5	259	11	US-11-072-512-2303	Sequence 2303, Ap	471	26	56.5	472	11	US-11-114-301-2	Sequence 2, Appl
399	26	56.5	271	11	US-11-096-568A-28742	Sequence 28742, A	472	26	56.5	473	26	US-10-453-372-770	Sequence 770, App
400	26	56.5	272	11	US-11-045-004-2497	Sequence 2497, Ap	473	26	56.5	474	11	US-11-072-512-3289	Sequence 3289, Ap
401	26	56.5	273	9	US-10-115-609-39	Sequence 39, Appl	474	26	56.5	480	9	US-10-204-633-20	Sequence 20, Appl
402	26	56.5	273	11	US-11-113-424-74	Sequence 74, Appl	475	26	56.5	480	11	US-11-184-574-4	Sequence 4, Appl
403	26	56.5	273	11	US-11-113-424-75	Sequence 75, Appl	476	26	56.5	491	11	US-11-280-416-5	Sequence 5, Appl
404	26	56.5	273	11	US-11-178-230-8	Sequence 8, Appl	477	26	56.5	493	9	US-10-995-561-611	Sequence 611, App
405	26	56.5	274	11	US-11-072-512-2191	Sequence 2191, Ap	478	26	56.5	495	11	US-11-072-512-2860	Sequence 2860, Ap
406	26	56.5	283	11	US-11-188-298-4940	Sequence 4940, Ap	479	26	56.5	504	9	US-10-784-004-427	Sequence 427, App
407	26	56.5	283	11	US-11-264-096-821	Sequence 821, App	480	26	56.5	504	9	US-10-784-004-948	Sequence 948, App
408	26	56.5	284	9	US-10-892-379-10	Sequence 10, Appl	481	26	56.5	517	11	US-11-051-720-1432	Sequence 1432, Ap
409	26	56.5	284	9	US-10-453-372-790	Sequence 790, App	482	26	56.5	518	11	US-11-226-701-13	Sequence 13, Appl
410	26	56.5	289	9	US-10-453-372-776	Sequence 776, App	483	26	56.5	533	9	US-10-714-995-28	Sequence 28, Appl
411	26	56.5	290	9	US-10-467-657-4424	Sequence 4424, Ap	484	26	56.5	533	9	US-10-995-561-610	Sequence 610, App
412	26	56.5	302	9	US-10-453-372-780	Sequence 780, App	485	26	56.5	535	9	US-10-493-909-84	Sequence 84, Appl
413	26	56.5	302	9	US-10-453-372-782	Sequence 782, App	486	26	56.5	537	9	US-10-330-773-263	Sequence 263, Appl
414	26	56.5	302	9	US-10-453-372-788	Sequence 788, App	487	26	56.5	538	9	US-10-493-909-99	Sequence 99, Appl
415	26	56.5	302	9	US-10-453-372-792	Sequence 792, App	488	26	56.5	544	11	US-11-188-298-4372	Sequence 4372, Ap
416	26	56.5	302	11	US-11-156-084-334	Sequence 334, App	489	26	56.5	547	11	US-11-087-099-4235	Sequence 4235, Ap
417	26	56.5	302	11	US-11-264-096-2151	Sequence 2151, Ap	490	26	56.5	548	9	US-10-493-909-77	Sequence 77, Appl
418	26	56.5	306	11	US-11-052-534A-259	Sequence 259, App	491	26	56.5	548	9	US-10-493-909-78	Sequence 78, Appl
419	26	56.5	306	11	US-11-188-298-14547	Sequence 14547, A	492	26	56.5	555	11	US-11-072-512-2011	Sequence 2011, Ap
420	26	56.5	306	11	US-11-123-241-12	Sequence 12, Appl	493	26	56.5	557	9	US-10-194-487-336	Sequence 326, App
421	26	56.5	308	11	US-11-096-568A-28741	Sequence 28741, A	494	26	56.5	557	9	US-10-195-889-336	Sequence 326, App
422	26	56.5	309	9	US-10-453-372-778	Sequence 778, App	495	26	56.5	557	9	US-10-195-889-336	Sequence 326, App
423	26	56.5	310	11	US-11-096-568A-21631	Sequence 21631, A	496	26	56.5	557	11	US-10-195-889-336	Sequence 326, App
424	26	56.5	311	11	US-11-096-568A-21630	Sequence 21630, A	497	26	56.5	557	11	US-11-019-711-95	Sequence 95, Appl
425	26	56.5	317	11	US-11-045-004-294	Sequence 294, App	498	26	56.5	560	9	US-10-623-155-225	Sequence 225, App
426	26	56.5	319	11	US-11-087-099-1984	Sequence 1984, Ap	499	26	56.5	560	9	US-10-784-004-1217	Sequence 1217, Ap
427	26	56.5	321	9	US-10-467-657-1710	Sequence 1710, Ap	500	26	56.5	561	11	US-11-188-298-11009	Sequence 11009, A
428	26	56.5	323	9	US-10-485-517-251	Sequence 251, App	501	26	56.5	563	9	US-10-821-234-1067	Sequence 1067, Ap
429	26	56.5	326	11	US-11-096-568A-3049	Sequence 3049, Ap	502	26	56.5	564	8	US-10-821-234-1257	Sequence 2557, App
430	26	56.5	327	9	US-10-512-184-62	Sequence 62, Appl	503	26	56.5	570	9	US-10-821-234-1601	Sequence 1601, Ap
431	26	56.5	327	9	US-10-512-184-64	Sequence 64, Appl	504	26	56.5	572	9	US-10-218-784-42	Sequence 42, Appl
432	26	56.5	328	11	US-10-512-184-63	Sequence 63, Appl	505	26	56.5	572	9	US-10-219-061-42	Sequence 42, Appl
433	26	56.5	332	11	US-11-188-298-10173	Sequence 10173, A	506	26	56.5	572	9	US-10-219-061-42	Sequence 42, Appl
434	26	56.5	342	11	US-11-188-298-21203	Sequence 21203, A	507	26	56.5	572	9	US-10-219-061-42	Sequence 42, Appl
435	26	56.5	347	9	US-10-517-939-248	Sequence 248, App	508	26	56.5	572	9	US-10-233-134-42	Sequence 42, Appl
436	26	56.5	352	11	US-11-051-720-1325	Sequence 1325, Ap	509	26	56.5	572	11	US-11-188-298-7715	Sequence 7715, Ap
437	26	56.5	354	11	US-11-051-720-1324	Sequence 1324, Ap	510	26	56.5	576	9	US-11-261-184-65	Sequence 65, Appl
438	26	56.5	355	11	US-11-108-088-55	Sequence 55, Appl	511	26	56.5	579	11	US-11-261-346-2	Sequence 2, Appl
439	26	56.5	360	11	US-11-188-298-9321	Sequence 9321, Ap	512	26	56.5	581	11	US-11-188-298-7739	Sequence 7739, Ap
440	26	56.5	361	9	US-10-995-561-612	Sequence 612, App	513	26	56.5	601	11	US-11-045-004-2703	Sequence 2703, Ap
441	26	56.5	361	11	US-11-130-206-6	Sequence 6, Appl	514	26	56.5	609	11	US-11-096-568A-27554	Sequence 27554, A
442	26	56.5	363	11	US-11-051-720-1326	Sequence 1326, Ap	515	26	56.5	624	9	US-10-453-372-1070	Sequence 1070, App
443	26	56.5	377	11	US-11-096-568A-28740	Sequence 28740, A	516	26	56.5	625	9	US-10-512-184-47	Sequence 47, App
444	26	56.5	390	11	US-11-219-282-13	Sequence 13, Appl	517	26	56.5	629	9	US-10-453-372-268	Sequence 268, App
445	26	56.5	390	11	US-11-087-099-2856	Sequence 2856, Ap	518	26	56.5	631	11	US-11-087-099-12446	Sequence 12446, A
446	26	56.5	395	9	US-10-995-561-614	Sequence 614, App	519	26	56.5	646	11	US-11-096-568A-27553	Sequence 27553, A
447	26	56.5	398	11	US-11-178-230-3	Sequence 3, Appl	520	26	56.5	668	9	US-10-995-561-619	Sequence 619, App
448	26	56.5	399	11	US-11-188-298-3206	Sequence 3206, Ap	521	26	56.5	668	11	US-11-096-568A-34268	Sequence 34268, A
449	26	56.5	405	9	US-10-517-939-132	Sequence 132, App	522	26	56.5	676	11	US-11-096-568A-2536	Sequence 2538, Ap
450	26	56.5	419	11	US-11-072-512-3514	Sequence 3514, Ap	523	26	56.5	678	11	US-11-096-568A-34267	Sequence 34267, A
451	26	56.5	422	9	US-10-454-437-202	Sequence 202, App	524	26	56.5	680	11	US-11-096-568A-14699	Sequence 14699, A
452	26	56.5	422	11	US-11-055-823-372	Sequence 372, App	525	26	56.5	688	9	US-10-878-5567A-132	Sequence 132, App
453	26	56.5	425	9	US-10-995-561-616	Sequence 616, App	526	26	56.5	690	11	US-11-096-568A-34266	Sequence 34266, A
454	26	56.5	425	11	US-11-188-298-6615	Sequence 6615, Ap	527	26	56.5	691	9	US-10-995-561-617	Sequence 617, App
455	26	56.5	425	11	US-11-188-298-15729	Sequence 15729, A	528	26	56.5	699	11	US-11-130-206-4	Sequence 4, Appl
456	26	56.5	436	11	US-11-079-463-5845	Sequence 5845, Ap	529	26	56.5	700	11	US-11-130-206-2	Sequence 2, Appl
457	26	56.5	456	11	US-11-188-298-21690	Sequence 21690, A	530	26	56.5	715	11	US-11-096-568A-27552	Sequence 27552, A
458	26	56.5	458	9	US-10-453-372-786	Sequence 786, App	531	26	56.5	716	11	US-11-096-568A-29226	Sequence 29226, A
459	26	56.5	460	11	US-11-079-463-6175	Sequence 6175, Ap	532	26	56.5	722	11	US-11-096-568A-2537	Sequence 2537, Ap

533	26	56.5	722	11	US-11-096-568A-29225	Sequence 29225, A	606	26	56.5	1966	9	US-10-480-330-26	Sequence 26, Appl
534	26	56.5	734	9	US-10-501-035-347	Sequence 347, App	607	26	56.5	1966	9	US-10-480-330-28	Sequence 28, Appl
535	26	56.5	735	11	US-11-096-568A-2536	Sequence 2536, Ap	608	26	56.5	2228	9	US-10-330-772-42	Sequence 42, Appl
536	26	56.5	737	11	US-11-096-568A-29224	Sequence 29224, A	609	26	56.5	2413	8	US-10-511-937-2616	Sequence 2616, Ap
537	26	56.5	742	8	US-10-505-928-434	Sequence 434, App	610	26	56.5	2897	9	US-10-499-715-2	Sequence 2, Appl1
538	26	56.5	742	9	US-10-995-561-615	Sequence 615, App	611	26	56.5	2910	9	US-10-330-773-39	Sequence 39, Appl
539	26	56.5	742	9	US-10-995-561-618	Sequence 618, App	612	26	56.5	4074	8	US-10-501-834-2	Sequence 24, Appl1
540	26	56.5	742	9	US-10-453-372-264	Sequence 264, App	613	26	56.5	4668	11	US-11-044-111-24	Sequence 47, Appl
541	26	56.5	742	10	US-11-242-111-30	Sequence 30, Appl	614	26	56.5	5712	11	US-11-143-980-47	Sequence 47, Appl
542	26	56.5	742	11	US-11-169-041-184	Sequence 184, App	615	26	56.5	5712	11	US-11-186-731-5	Sequence 5, Appl1
543	26	56.5	742	11	US-11-072-175-176	Sequence 176, App	616	26	56.5	5712	11	US-11-186-731-5	Sequence 5, Appl1
544	26	56.5	747	11	US-11-096-568A-14698	Sequence 14698, A	617	25	54.3	253	11	US-11-079-463-9569	Sequence 9569, Ap
545	26	56.5	752	11	US-11-051-724-64	Sequence 62, Appl	618	25	54.3	10	9	US-10-530-061-113	Sequence 113, App
546	26	56.5	752	11	US-11-051-724-64	Sequence 64, Appl	619	25	54.3	25	11	US-11-249-893-21	Sequence 21, Appl
547	26	56.5	774	11	US-11-072-512-2554	Sequence 2554, Ap	620	25	54.3	48	11	US-11-004-339-1406	Sequence 1406, Ap
548	26	56.5	794	11	US-11-218-986-2	Sequence 2, Appl1	621	25	54.3	74	11	US-11-079-463-6222	Sequence 6222, Ap
549	26	56.5	799	9	US-10-493-909-8	Sequence 8, Appl	622	25	54.3	88	11	US-11-079-463-9096	Sequence 9096, Ap
550	26	56.5	820	9	US-10-821-234-1176	Sequence 1176, Ap	623	25	54.3	81	11	US-11-045-004-2443	Sequence 2443, Ap
551	26	56.5	820	11	US-11-188-298-5868	Sequence 5868, Ap	624	25	54.3	97	11	US-11-084-554-211	Sequence 211, App
552	26	56.5	822	11	US-10-493-909-48	Sequence 48, Appl	625	25	54.3	97	11	US-11-136-250-211	Sequence 211, App
553	26	56.5	823	11	US-11-188-298-6133	Sequence 6133, Ap	626	25	54.3	98	9	US-10-999-866-22	Sequence 22, Appl
554	26	56.5	826	11	US-11-096-568A-14697	Sequence 14697, A	627	25	54.3	98	9	US-10-935-0058-53	Sequence 53, Appl
555	26	56.5	848	11	US-11-188-298-2293	Sequence 2293, Ap	628	25	54.3	98	10	US-11-091-234A-22	Sequence 22, Appl
556	26	56.5	855	11	US-11-096-568A-29960	Sequence 29960, A	629	25	54.3	98	11	US-11-061-821-22	Sequence 22, Appl
557	26	56.5	892	9	US-10-511-989-8	Sequence 8, Appl1	630	25	54.3	98	11	US-11-089-266-5	Sequence 5, Appl1
558	26	56.5	897	11	US-11-096-568A-29959	Sequence 29959, A	631	25	54.3	104	11	US-11-064-174-49	Sequence 49, Appl
559	26	56.5	911	11	US-11-096-568A-29958	Sequence 29958, A	632	25	54.3	104	11	US-11-096-568A-14644	Sequence 14644, A
560	26	56.5	912	9	US-10-501-035-372	Sequence 372, App	633	25	54.3	106	11	US-11-064-174-47	Sequence 47, Appl
561	26	56.5	923	11	US-11-087-099-8023	Sequence 8023, Ap	634	25	54.3	107	9	US-10-771-257-76	Sequence 76, Appl
562	26	56.5	923	11	US-11-188-298-22194	Sequence 22194, A	635	25	54.3	107	11	US-11-127-677-74	Sequence 74, Appl
563	26	56.5	931	11	US-11-019-711-117	Sequence 117, App	636	25	54.3	107	11	US-11-049-536-208	Sequence 208, App
564	26	56.5	931	11	US-11-019-711-118	Sequence 118, App	637	25	54.3	107	11	US-11-049-536-356	Sequence 356, App
565	26	56.5	931	11	US-11-019-711-119	Sequence 119, App	638	25	54.3	107	11	US-11-049-536-624	Sequence 624, App
566	26	56.5	931	11	US-11-019-711-120	Sequence 120, App	639	25	54.3	107	11	US-11-099-739-208	Sequence 208, App
567	26	56.5	931	11	US-11-183-136-22	Sequence 22, Appl	640	25	54.3	107	11	US-11-199-739-356	Sequence 356, App
568	26	56.5	931	11	US-11-183-136-24	Sequence 24, Appl	641	25	54.3	107	11	US-11-199-739-356	Sequence 356, App
569	26	56.5	941	11	US-11-096-568A-29375	Sequence 29375, A	642	25	54.3	107	11	US-11-199-739-356	Sequence 356, App
570	26	56.5	950	9	US-10-511-989-6	Sequence 6, Appl1	643	25	54.3	108	9	US-10-771-257-23	Sequence 23, Appl
571	26	56.5	967	11	US-11-124-367A-312	Sequence 312, App	644	25	54.3	108	9	US-10-771-257-24	Sequence 24, Appl
572	26	56.5	1006	9	US-10-511-989-4	Sequence 4, Appl1	645	25	54.3	108	9	US-10-771-257-31	Sequence 31, Appl
573	26	56.5	1027	9	US-10-330-773-265	Sequence 265, App	646	25	54.3	108	9	US-10-771-257-62	Sequence 62, Appl
574	26	56.5	1050	11	US-11-096-568A-29374	Sequence 29374, A	647	25	54.3	108	9	US-10-771-257-66	Sequence 66, Appl
575	26	56.5	1051	9	US-10-330-773-268	Sequence 268, App	648	25	54.3	108	9	US-10-771-257-73	Sequence 73, Appl
576	26	56.5	1062	9	US-10-455-989-2	Sequence 2, Appl1	649	25	54.3	108	10	US-11-254-182-56	Sequence 56, Appl
577	26	56.5	1079	9	US-10-455-772-1068	Sequence 1068, Ap	650	25	54.3	108	11	US-11-127-677-23	Sequence 23, Appl
578	26	56.5	1120	8	US-10-505-928-213	Sequence 213, App	651	25	54.3	108	11	US-11-127-677-31	Sequence 31, Appl
579	26	56.5	1132	11	US-11-096-568A-29373	Sequence 29373, A	652	25	54.3	108	11	US-11-127-677-60	Sequence 60, Appl
580	26	56.5	1137	9	US-10-499-715-4	Sequence 4, Appl1	653	25	54.3	108	11	US-11-127-677-64	Sequence 64, Appl
581	26	56.5	1206	9	US-10-858-730-73	Sequence 73, Appl	654	25	54.3	108	11	US-11-127-677-71	Sequence 71, Appl
582	26	56.5	1212	11	US-11-188-298-8749	Sequence 8749, Ap	655	25	54.3	108	11	US-11-127-677-77	Sequence 77, Appl
583	26	56.5	1278	9	US-10-995-561-952	Sequence 952, App	656	25	54.3	108	11	US-11-127-677-77	Sequence 77, Appl
584	26	56.5	1279	9	US-10-793-626-3188	Sequence 3188, Ap	657	25	54.3	108	11	US-11-112-240-16	Sequence 16, Appl
585	26	56.5	1315	9	US-10-453-372-1034	Sequence 1034, Ap	658	25	54.3	108	11	US-11-112-240-16	Sequence 20, Appl
586	26	56.5	1330	9	US-10-453-372-260	Sequence 260, App	659	25	54.3	108	11	US-11-112-240-20	Sequence 16, Appl
587	26	56.5	1335	9	US-10-453-372-1030	Sequence 1030, Ap	660	25	54.3	108	11	US-11-112-304A-16	Sequence 20, Appl
588	26	56.5	1369	11	US-11-124-367A-311	Sequence 311, App	661	25	54.3	108	11	US-11-112-304A-20	Sequence 20, Appl
589	26	56.5	1542	9	US-10-453-372-258	Sequence 258, App	662	25	54.3	108	11	US-11-049-536-464	Sequence 464, App
590	26	56.5	1542	9	US-10-453-372-266	Sequence 266, App	663	25	54.3	108	11	US-11-199-739-464	Sequence 464, App
591	26	56.5	1542	9	US-10-453-372-280	Sequence 280, App	664	25	54.3	109	9	US-10-999-866-45	Sequence 45, Appl
592	26	56.5	1927	11	US-11-079-463-6265	Sequence 6265, Ap	665	25	54.3	109	9	US-10-771-257-75	Sequence 75, Appl
593	26	56.5	1928	9	US-10-480-330-30	Sequence 30, Appl	666	25	54.3	109	11	US-11-127-677-73	Sequence 73, Appl
594	26	56.5	1965	9	US-10-480-330-4	Sequence 4, Appl1	667	25	54.3	109	11	US-11-049-536-292	Sequence 292, App
595	26	56.5	1966	9	US-10-480-330-2	Sequence 2, Appl1	668	25	54.3	109	11	US-11-199-739-292	Sequence 292, App
596	26	56.5	1966	9	US-10-480-330-6	Sequence 6, Appl1	669	25	54.3	110	9	US-10-771-257-30	Sequence 30, Appl
597	26	56.5	1966	9	US-10-480-330-8	Sequence 8, Appl1	670	25	54.3	110	11	US-11-127-677-30	Sequence 30, Appl
598	26	56.5	1966	9	US-10-480-330-10	Sequence 10, Appl	671	25	54.3	110	11	US-11-049-536-548	Sequence 548, App
599	26	56.5	1966	9	US-10-480-330-12	Sequence 12, Appl	672	25	54.3	110	11	US-11-098-686-10298	Sequence 10298, A
600	26	56.5	1966	9	US-10-480-330-14	Sequence 14, Appl	673	25	54.3	110	11	US-11-172-740-1842	Sequence 1842, Ap
601	26	56.5	1966	9	US-10-480-330-16	Sequence 16, Appl	674	25	54.3	110	11	US-11-199-739-548	Sequence 548, App
602	26	56.5	1966	9	US-10-480-330-18	Sequence 18, Appl	675	25	54.3	111	11	US-11-096-568A-14643	Sequence 14643, A
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681	25	54.3	117	9	US-10-793-626-228	Sequence 228, App	754	25	54.3	238	11	US-11-054-515-2067	Sequence 2067, Ap
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683	25	54.3	118	11	US-11-136-559-8	Sequence 8, App1	756	25	54.3	238	11	US-11-052-554A-51	Sequence 51, App1
684	25	54.3	118	11	US-11-136-559-16	Sequence 16, App1	757	25	54.3	238	11	US-11-052-554A-52	Sequence 52, App1
685	25	54.3	118	11	US-11-209-289-9	Sequence 9, App1	758	25	54.3	238	11	US-11-193-561-10	Sequence 10, App1
686	25	54.3	119	9	US-10-502-145-25	Sequence 25, App1	759	25	54.3	238	11	US-11-193-771-10	Sequence 10, App1
687	25	54.3	119	11	US-11-089-266-16	Sequence 16, App1	760	25	54.3	238	11	US-11-193-769-10	Sequence 10, App1
688	25	54.3	119	11	US-11-004-590-235	Sequence 235, App	761	25	54.3	238	11	US-11-193-806-10	Sequence 10, App1
689	25	54.3	119	11	US-11-076-395-15	Sequence 15, App1	762	25	54.3	238	11	US-11-193-857-10	Sequence 10, App1
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717	25	54.3	180	11	US-11-188-298-7181	Sequence 7181, Ap	790	25	54.3	241	11	US-11-266-444-2013	Sequence 2013, Ap
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855	25	54.3	243	11	US-11-266-444-2102	Sequence 2102, Ap	928	25	54.3	247	11	US-11-266-444-924	Sequence 924, App
856	25	54.3	243	11	US-11-266-444-2107	Sequence 2107, Ap	929	25	54.3	247	11	US-11-266-444-927	Sequence 927, App
857	25	54.3	244	11	US-11-054-515-1639	Sequence 1639, Ap	930	25	54.3	247	11	US-11-266-444-948	Sequence 948, App
858	25	54.3	244	11	US-11-054-515-1692	Sequence 1692, Ap	931	25	54.3	247	11	US-11-266-444-996	Sequence 996, App
859	25	54.3	244	11	US-11-054-515-1694	Sequence 1694, Ap	932	25	54.3	247	11	US-11-266-444-999	Sequence 999, App
860	25	54.3	244	11	US-11-054-515-1924	Sequence 1924, Ap	933	25	54.3	247	11	US-11-266-444-1112	Sequence 1112, Ap
861	25	54.3	244	11	US-11-054-515-1933	Sequence 1933, Ap	934	25	54.3	247	11	US-11-266-444-1116	Sequence 1116, Ap
862	25	54.3	244	11	US-11-054-515-2058	Sequence 2058, Ap	935	25	54.3	247	11	US-11-266-444-1234	Sequence 1234, Ap
863	25	54.3	244	11	US-11-266-444-1639	Sequence 1639, Ap	936	25	54.3	247	11	US-11-266-444-1307	Sequence 1307, Ap
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867	25	54.3	244	11	US-11-266-444-1924	Sequence 1924, Ap	940	25	54.3	247	11	US-11-266-444-1470	Sequence 1470, Ap
868	25	54.3	244	11	US-11-266-444-1933	Sequence 1933, Ap	941	25	54.3	247	11	US-11-266-444-1470	Sequence 1470, Ap
869	25	54.3	244	11	US-11-266-444-2058	Sequence 2058, Ap	942	25	54.3	247	11	US-11-266-444-1652	Sequence 1652, Ap
870	25	54.3	245	11	US-11-054-515-1815	Sequence 1815, Ap	943	25	54.3	247	11	US-11-266-444-1652	Sequence 1652, Ap
871	25	54.3	245	11	US-11-054-515-1826	Sequence 1826, Ap	944	25	54.3	247	11	US-11-266-444-1703	Sequence 1703, Ap
872	25	54.3	245	11	US-11-054-515-1919	Sequence 1919, Ap	945	25	54.3	247	11	US-11-266-444-1729	Sequence 1729, Ap
873	25	54.3	245	11	US-11-054-515-1979	Sequence 1979, Ap	946	25	54.3	247	11	US-11-266-444-1764	Sequence 1764, Ap
874	25	54.3	245	11	US-11-087-099-6442	Sequence 6442, Ap	947	25	54.3	247	11	US-11-266-444-1764	Sequence 1764, Ap
875	25	54.3	245	11	US-11-266-444-1615	Sequence 1615, Ap	948	25	54.3	247	11	US-11-266-444-1873	Sequence 1873, Ap
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877	25	54.3	245	11	US-11-266-444-1919	Sequence 1919, Ap	950	25	54.3	247	11	US-11-266-444-2072	Sequence 2072, Ap
878	25	54.3	245	11	US-11-266-444-1979	Sequence 1979, App	951	25	54.3	247	11	US-11-266-444-2103	Sequence 2103, Ap
879	25	54.3	246	11	US-11-054-515-928	Sequence 928, App	952	25	54.3	247	11	US-11-054-515-835	Sequence 835, App
880	25	54.3	246	11	US-11-054-515-1192	Sequence 1192, Ap	953	25	54.3	248	11	US-11-054-515-848	Sequence 848, App
881	25	54.3	246	11	US-11-054-515-1300	Sequence 1300, Ap	954	25	54.3	248	11	US-11-054-515-877	Sequence 877, App
882	25	54.3	246	11	US-11-054-515-1308	Sequence 1308, Ap	955	25	54.3	248	11	US-11-054-515-893	Sequence 893, App
883	25	54.3	246	11	US-11-054-515-1393	Sequence 1393, Ap	956	25	54.3	248	11	US-11-054-515-895	Sequence 895, App
884	25	54.3	246	11	US-11-054-515-1426	Sequence 1426, Ap	957	25	54.3	248	11	US-11-054-515-900	Sequence 900, App
885	25	54.3	246	11	US-11-054-515-1638	Sequence 1638, Ap	958	25	54.3	248	11	US-11-054-515-913	Sequence 913, App
886	25	54.3	246	11	US-11-054-515-1655	Sequence 1655, Ap	959	25	54.3	248	11	US-11-054-515-916	Sequence 916, App
887	25	54.3	246	11	US-11-054-515-1702	Sequence 1702, Ap	960	25	54.3	248	11	US-11-054-515-916	Sequence 916, App
888	25	54.3	246	11	US-11-054-515-1781	Sequence 1781, Ap	961	25	54.3	248	11	US-11-054-515-921	Sequence 921, App
889	25	54.3	246	11	US-11-054-515-1818	Sequence 1818, Ap	962	25	54.3	248	11	US-11-054-515-950	Sequence 950, App
890	25	54.3	246	11	US-11-054-515-1975	Sequence 1975, Ap	963	25	54.3	248	11	US-11-054-515-953	Sequence 953, App
891	25	54.3	246	11	US-11-054-515-1978	Sequence 1978, App	964	25	54.3	248	11	US-11-054-515-959	Sequence 959, App
892	25	54.3	246	11	US-11-266-444-928	Sequence 928, App	965	25	54.3	248	11	US-11-054-515-965	Sequence 965, App
893	25	54.3	246	11	US-11-266-444-1192	Sequence 1192, Ap	966	25	54.3	248	11	US-11-054-515-967	Sequence 967, App
894	25	54.3	246	11	US-11-266-444-1300	Sequence 1300, Ap	967	25	54.3	248	11	US-11-054-515-970	Sequence 970, App
895	25	54.3	246	11	US-11-266-444-1308	Sequence 1308, Ap	968	25	54.3	248	11	US-11-054-515-970	Sequence 970, App
896	25	54.3	246	11	US-11-266-444-1393	Sequence 1393, Ap	969	25	54.3	248	11	US-11-054-515-980	Sequence 980, App
897	25	54.3	246	11	US-11-266-444-1426	Sequence 1426, Ap	970	25	54.3	248	11	US-11-054-515-980	Sequence 980, App

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971 25 54.3 248 11 US-11-054-515-984 Sequence 984, App
972 25 54.3 248 11 US-11-054-515-987 Sequence 987, App
973 25 54.3 248 11 US-11-054-515-1178 Sequence 1178, Ap
974 25 54.3 248 11 US-11-054-515-1181 Sequence 1181, Ap
975 25 54.3 248 11 US-11-054-515-1182 Sequence 1182, Ap
976 25 54.3 248 11 US-11-054-515-1251 Sequence 1251, Ap
977 25 54.3 248 11 US-11-054-515-1293 Sequence 1293, Ap
978 25 54.3 248 11 US-11-054-515-1306 Sequence 1306, Ap
979 25 54.3 248 11 US-11-054-515-1323 Sequence 1323, Ap
980 25 54.3 248 11 US-11-054-515-1331 Sequence 1331, Ap
981 25 54.3 248 11 US-11-054-515-1386 Sequence 1386, Ap
982 25 54.3 248 11 US-11-054-515-1387 Sequence 1387, Ap
983 25 54.3 248 11 US-11-054-515-1388 Sequence 1388, Ap
984 25 54.3 248 11 US-11-054-515-1417 Sequence 1417, Ap
985 25 54.3 248 11 US-11-054-515-1456 Sequence 1456, Ap
986 25 54.3 248 11 US-11-054-515-1472 Sequence 1472, Ap
987 25 54.3 248 11 US-11-054-515-1588 Sequence 1588, Ap
988 25 54.3 248 11 US-11-054-515-1609 Sequence 1609, Ap
989 25 54.3 248 11 US-11-054-515-1622 Sequence 1622, Ap
990 25 54.3 248 11 US-11-054-515-1623 Sequence 1623, Ap
991 25 54.3 248 11 US-11-054-515-1624 Sequence 1624, Ap
992 25 54.3 248 11 US-11-054-515-1643 Sequence 1643, Ap
993 25 54.3 248 11 US-11-054-515-1648 Sequence 1648, Ap
994 25 54.3 248 11 US-11-054-515-1657 Sequence 1657, Ap
995 25 54.3 248 11 US-11-054-515-1662 Sequence 1662, Ap
996 25 54.3 248 11 US-11-054-515-1665 Sequence 1665, Ap
997 25 54.3 248 11 US-11-054-515-1667 Sequence 1667, Ap
998 25 54.3 248 11 US-11-054-515-1668 Sequence 1668, Ap
999 25 54.3 248 11 US-11-054-515-1670 Sequence 1670, Ap
1000 25 54.3 248 11 US-11-054-515-1675 Sequence 1675, Ap
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## ALIGNMENTS

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RESULT 1
US-10-530-061-1659
; Sequence 1659, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1659
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1659
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Query Match 100.0%; Score 46; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0023;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 SLQDIETIC 9
Db 3 SLQDIETIC 11
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RESULT 2
US-10-530-253-15
; Sequence 15, Application US/10530253
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15
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Query Match 100.0%; Score 46; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 SLQDIETIC 9
Db 24 SLQDIETIC 32
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RESULT 3
US-11-155-288-8
; Sequence 8, Application US/1155288
; Publication No. US2006008468A1
; GENERAL INFORMATION:
; APPLICANT: Chiang, Chih-Sheng
; APPLICANT: Steward, John J.L.
; TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
; FILE REFERENCE: MANNK.050A
; CURRENT APPLICATION NUMBER: US/11/155,288
; CURRENT FILING DATE: 2005-06-17
; PRIOR FILING DATE: 2004-06-17
; PRIOR APPLICATION NUMBER: 60/580,969
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-155-288-8
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Query Match 82.6%; Score 38; DB 11; Length 509;
Best Local Similarity 55.6%; Pred. No. 4.6;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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QY 1 SLQDIETIC 9
Db 234 SLQDIETIC 242
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RESULT 4
US-10-530-061-55
; Sequence 55, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
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; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 55
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-55
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Query Match          78.3%; Score 36; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      2 LQDIETC 9
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Db      1 LQDIETC 8
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RESULT 5
US-10-530-061-112
; Sequence 112, Application US/10530061
; Publication No. US2006007945A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033S02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 112
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-112
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Query Match          78.3%; Score 36; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      2 LQDIETC 9
        |||||
Db      1 LQDIETC 8
```

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RESULT 6
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US2006001426A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
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; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20
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Query Match          76.1%; Score 35; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 5.5;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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QY      1 SLQDVSIAC 9
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Db      24 SLQDVSIAC 32
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RESULT 7
US-11-188-298-1612
; Sequence 1612, Application US/11188298
; Publication No. US2006007552A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1612
; LENGTH: 673
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-188-298-1612
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Query Match          76.1%; Score 35; DB 11; Length 673;
Best Local Similarity 62.5%; Pred. No. 26;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
QY      2 LQDIETC 9
        |||||
Db      408 LQDIETC 415
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RESULT 8
US-10-329-258-27
; Sequence 27, Application US/10329258
; Publication No. US2006002423A1
; GENERAL INFORMATION:
; APPLICANT: MUELLER, SABINE
; APPLICANT: GONZALEZ-ZULUETA, MIRELLA
; APPLICANT: FOEHR, ERIK
; APPLICANT: CHIN, DANIEL J.
; TITLE OF INVENTION: USE OF BIOMOLECULAR TARGETS IN THE TREATMENT AND VISUALIZATION O
; FILE REFERENCE: AGYT-008052
; CURRENT APPLICATION NUMBER: US/10/329,258
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 60/343,422
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-329-258-27
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Query Match          73.9%; Score 34; DB 9; Length 366;
Best Local Similarity 66.7%; Pred. No. 22;
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```

Matches      6;  Conservative      2;  Mismatches      1;  Indels      0;  Gaps      0;
QY           1  SLQDIETC 9
      |||:||||
Db          123 ALQDLNTC 131

RESULT 9
US-11-000-463-410
; Sequence 410, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Cao, Yi-Cheng
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; PRIOR FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 410
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-000-463-410

Query Match      73.9%; Score 34; DB 11; Length 366;
Best Local Similarity 66.7%; Pred. No. 22;
Matches      6;  Conservative      2;  Mismatches      1;  Indels      0;  Gaps      0;
QY           1  SLQDIETC 9
      |||:||||
Db          123 ALQDLNTC 131

RESULT 10
US-11-000-463-882
; Sequence 882, Application US/11000463
; Publication No. US20050266423A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Chen, Rui-hong
; APPLICANT: Qian, Xiaohong B.
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wehrman, Tom
; APPLICANT: Zhang, Jie
; APPLICANT: Zhou, Ping
; APPLICANT: Cao, Yi-Cheng

```

```

; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 785CIP4CN
; CURRENT APPLICATION NUMBER: US/11/000,463
; PRIOR FILING DATE: 2004-11-29
; PRIOR APPLICATION NUMBER: 10/291,265
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 09/617,746
; PRIOR FILING DATE: 2000-07-17
; PRIOR APPLICATION NUMBER: 09/631,451
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 09/633,870
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 944
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 882
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-000-463-882

Query Match      73.9%; Score 34; DB 11; Length 366;
Best Local Similarity 66.7%; Pred. No. 22;
Matches      6;  Conservative      2;  Mismatches      1;  Indels      0;  Gaps      0;
QY           1  SLQDIETC 9
      |||:||||
Db          123 ALQDLNTC 131

RESULT 11
US-11-087-099-4671
; Sequence 4671, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4671
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Phlebia radiata
US-11-087-099-4671

Query Match      73.9%; Score 34; DB 11; Length 390;
Best Local Similarity 71.4%; Pred. No. 23;
Matches      5;  Conservative      2;  Mismatches      0;  Indels      0;  Gaps      0;
QY           3  QDIETC 9
      |||:||||
Db          337 QDLNTC 343

RESULT 12
US-10-530-061-517
; Sequence 517, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EXS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061

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; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 517
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-10-530-061-517

Query Match          71.7%; Score 33; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 DIETC 9
Db 1 DIETC 6

RESULT 13
; US-10-995-951A-28
; Sequence 28, Application US/10995951A
; Publication No. US20050245732A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, A. et al.
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Expression
; FILE REFERENCE: 1096.021B
; CURRENT APPLICATION NUMBER: US/10/995,951A
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: PCT/CA02/01807
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: PCT/CA02/00740
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 28
; LENGTH: 143
; TYPE: PRT
; ORGANISM: rhizobium elti
; US-10-995-951A-28

Query Match          71.7%; Score 33; DB 9; Length 143;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9
Db 71 SVQDDQITC 79

RESULT 14
; US-10-995-951A-30
; Sequence 30, Application US/10995951A
; Publication No. US20050245732A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, A. et al.
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Expression
; FILE REFERENCE: 1096.021B
; CURRENT APPLICATION NUMBER: US/10/995,951A
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: PCT/CA02/01807
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: PCT/CA02/00740
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
```

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; SEQ ID NO 30
; LENGTH: 143
; TYPE: PRT
; ORGANISM: rhizobium meliloti
; US-10-995-951A-30

Query Match          71.7%; Score 33; DB 9; Length 143;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9
Db 71 SVQDDQITC 79

RESULT 15
; US-11-067-425A-63
; Sequence 63, Application US/11067425A
; Publication No. US20050278809A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, Abdelali
; APPLICANT: Lydiate, Derek J.
; APPLICANT: Gao, Ming-Jun
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTOR
; FILE REFERENCE: 270.78US11
; CURRENT APPLICATION NUMBER: US/11/067,425A
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: US 10/516,753
; PRIOR FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/CA03/00822
; PRIOR FILING DATE: 2003-06-06
; PRIOR APPLICATION NUMBER: US 60/387,088
; PRIOR FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 63
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Rhizobium elti
; US-11-067-425A-63

Query Match          71.7%; Score 33; DB 11; Length 143;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

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QY 1 SLQDIETC 9
Db 71 SVQDDQITC 79

RESULT 16
; US-11-067-425A-65
; Sequence 65, Application US/11067425A
; Publication No. US20050278809A1
; GENERAL INFORMATION:
; APPLICANT: Hannouta, Abdelali
; APPLICANT: Lydiate, Derek J.
; APPLICANT: Gao, Ming-Jun
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTOR
; FILE REFERENCE: 270.78US11
; CURRENT APPLICATION NUMBER: US/11/067,425A
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: US 10/516,753
; PRIOR FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/CA03/00822
; PRIOR FILING DATE: 2003-06-06
; PRIOR APPLICATION NUMBER: US 60/387,088
; PRIOR FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 143
; TYPE: PRT
```

ORGANISM: Rhizobium meliloti  
US-11-067-425A-65

Query Match  
Best Local Similarity 71.7%; Score 33; DB 11; Length 143;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLDDIETC 9  
Db 71 SVQDDQITC 79

## RESULT 17

US-11-188-298-2647  
Sequence 2647, Application US/11188298  
Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
PRIOR FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 2647  
LENGTH: 633  
TYPE: PRT  
ORGANISM: Clostridium tetani E88  
US-11-188-298-2647

Query Match  
Best Local Similarity 71.7%; Score 33; DB 11; Length 633;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 167 IEDIDVTC 174

RESULT 18  
US-10-530-253-19  
Sequence 19, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassecci, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhiney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 19  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 39  
US-10-530-253-19

Query Match  
Best Local Similarity 69.6%; Score 32; DB 9; Length 158;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 SLDDIETC 9  
Db 24 TLDDITAC 32

RESULT 19  
US-11-096-568A-22478  
Sequence 22478, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.

TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 22480  
LENGTH: 210  
TYPE: PRT  
ORGANISM: Zea mays subsp. mays

FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(210)  
OTHER INFORMATION: Ceres Seq. ID no. 12408970  
US-11-096-568A-22480

Query Match  
Best Local Similarity 69.6%; Score 32; DB 11; Length 210;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 156 LRDIETC 163

RESULT 20  
US-11-096-568A-22479  
Sequence 22479, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 22479  
LENGTH: 243  
TYPE: PRT  
ORGANISM: Zea mays subsp. mays  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(243)  
OTHER INFORMATION: Ceres Seq. ID no. 12408969  
US-11-096-568A-22479

Query Match  
Best Local Similarity 69.6%; Score 32; DB 11; Length 243;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
Db 169 LRDIETC 196

RESULT 21  
US-11-096-568A-22478  
Sequence 22478, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A

;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 22478  
;; LENGTH: 304  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(304)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12408968  
US-11-096-568A-22478

Query Match 69.6%; Score 32; DB 11; Length 304;  
Best Local Similarity 75.0%; Pred. No. 46;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
DB 250 LRDIETLC 257

RESULT 22  
US-11-096-568A-19986  
;; Sequence 19986; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 19986  
;; LENGTH: 306  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(306)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12376375  
US-11-096-568A-19986

Query Match 69.6%; Score 32; DB 11; Length 306;  
Best Local Similarity 75.0%; Pred. No. 46;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
DB 213 LRDIETLC 220

RESULT 23  
US-11-096-568A-19985  
;; Sequence 19985; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 19985  
;; LENGTH: 307  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(307)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12376374  
US-11-096-568A-19985

Query Match 69.6%; Score 32; DB 11; Length 307;  
Best Local Similarity 75.0%; Pred. No. 47;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
DB 214 LRDIETLC 221

RESULT 24  
US-11-096-568A-19984  
;; Sequence 19984; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 19984  
;; LENGTH: 314  
;; TYPE: PRT  
;; ORGANISM: Zea mays subsp. mays  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(314)  
;; OTHER INFORMATION: Ceres Seq. ID no. 12376373  
US-11-096-568A-19984

Query Match 69.6%; Score 32; DB 11; Length 314;  
Best Local Similarity 75.0%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
DB 221 LRDIETLC 228

RESULT 25  
US-11-096-568A-5396  
;; Sequence 5396; Application US/11096568A  
;; Publication No. US20060048240A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Alexandrov, Nikolai et al.  
;; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
;; FILE REFERENCE: 2750-1592PUS2  
;; CURRENT APPLICATION NUMBER: US/11/096,568A  
;; CURRENT FILING DATE: 2005-04-01  
;; NUMBER OF SEQ ID NOS: 34471  
;; SEQ ID NO 5396  
;; LENGTH: 322  
;; TYPE: PRT  
;; ORGANISM: Glycine max  
;; FEATURE:  
;; NAME/KEY: misc.feature  
;; LOCATION: (1)..(322)  
;; OTHER INFORMATION: Ceres Seq. ID no. 14308682  
US-11-096-568A-5396

Query Match 69.6%; Score 32; DB 11; Length 322;  
Best Local Similarity 75.0%; Pred. No. 49;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LODIETC 9  
DB 214 LRDIETLC 221

RESULT 26

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US-11-096-568A-5395
; Sequence 5395, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5395
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(329)
; OTHER INFORMATION: Ceres Seq. ID no. 14308681
US-11-096-568A-5395

Query Match          69.6%; Score 32; DB 11; Length 329;
Best Local Similarity 75.0%; Pred. No. 50;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LODIETC 9
DB      221 LRDIETLC 228

RESULT 27
US-11-096-568A-5394
; Sequence 5394, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5394
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(339)
; OTHER INFORMATION: Ceres Seq. ID no. 14308680
US-11-096-568A-5394

Query Match          69.6%; Score 32; DB 11; Length 339;
Best Local Similarity 75.0%; Pred. No. 52;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 LODIETC 9
DB      231 LRDIETLC 238

RESULT 28
US-11-188-298-19258
; Sequence 19258, Application US/11188298
; Publication No. US2006007552A1
; GENERAL INFORMATION:
; APPLICANT: Abadi, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31

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; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19258
; LENGTH: 328
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-11-188-298-19258

Query Match          67.4%; Score 31; DB 11; Length 328;
Best Local Similarity 44.4%; Pred. No. 81;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1 SLODIETC 9
DB      282 NIQDLQIAC 290

RESULT 29
US-11-096-568A-10573
; Sequence 10573, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10573
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(331)
; OTHER INFORMATION: Ceres Seq. ID no. 13596495
US-11-096-568A-10573

Query Match          67.4%; Score 31; DB 11; Length 331;
Best Local Similarity 62.5%; Pred. No. 81;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      2 LODIETC 9
DB      208 LRDEIILC 215

RESULT 30
US-11-096-568A-10572
; Sequence 10572, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 10572
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(338)
; OTHER INFORMATION: Ceres Seq. ID no. 13596494
US-11-096-568A-10572

Query Match          67.4%; Score 31; DB 11; Length 338;
Best Local Similarity 62.5%; Pred. No. 83;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

Qy 2 LODIETC 9  
|:|:|:|  
Db 215 LRDEILC 222

## RESULT 31

US-11-096-568A-10571  
; Sequence 10571, Application US/11096568A  
; Publication No. US20060048240A1  
; ORGANISM: Ceriophoropsis subvermispora  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 10571  
; LENGTH: 381  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
; FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: (1)-(381)  
; OTHER INFORMATION: Ceres Seq. ID no. 13596493  
US-11-096-568A-10571

Query Match 67.4%; Score 31; DB 11; Length 381;  
Best Local Similarity 62.5%; Pred. No. 95;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
|:|:|:|  
Db 258 LRDEILC 265

## RESULT 32

US-11-087-099-1194  
; Sequence 1194, Application US/11087099  
; Publication No. US20060041961A1  
; ORGANISM: Ceriophoropsis subvermispora  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 1194  
; LENGTH: 387  
; TYPE: PRT  
; ORGANISM: Ceriophoropsis subvermispora  
US-11-087-099-1194

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 96;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QDIETC 9  
|:|:|:|  
Db 338 QDIQITC 344

## RESULT 33

US-11-087-099-9326  
; Sequence 9326, Application US/11087099  
; Publication No. US20060041961A1  
; ORGANISM: Ceriophoropsis subvermispora  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464

; SEQ ID NO 9326  
; LENGTH: 387  
; TYPE: PRT  
; ORGANISM: Ceriophoropsis subvermispora  
US-11-087-099-9326

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 96;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QDIETC 9  
|:|:|:|  
Db 338 QDIQITC 344

## RESULT 34

US-11-087-099-10451  
; Sequence 10451, Application US/11087099  
; Publication No. US20060041961A1  
; ORGANISM: Ceriophoropsis subvermispora  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 10451  
; LENGTH: 387  
; TYPE: PRT  
; ORGANISM: Ceriophoropsis subvermispora  
US-11-087-099-10451

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 96;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QDIETC 9  
|:|:|:|  
Db 338 QDIQITC 344

## RESULT 35

US-11-129-143-96  
; Sequence 96, Application US/1129143  
; Publication No. US2005026518A1  
; ORGANISM: Streptococcus pyrogenes  
; APPLICANT: BRETZEL, Werner  
; APPLICANT: HUMMELIN, Markus  
; APPLICANT: LOPEZ-ULIBARRI, Rual  
; APPLICANT: MAYER, Anne F.  
; APPLICANT: YELISEEV, Alexei A.  
; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION  
; FILE REFERENCE: C38435/121966  
; CURRENT APPLICATION NUMBER: US/11/129,143  
; CURRENT FILING DATE: 2005-05-13  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 96  
; LENGTH: 292  
; TYPE: PRT  
; ORGANISM: Streptococcus pyrogenes  
US-11-129-143-96

Query Match 65.2%; Score 30; DB 11; Length 292;  
Best Local Similarity 62.5%; Pred. No. 1,1e+02;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 LODIETC 9  
|:|:|:|  
Db 33 LTDIEVVC 40

```

RESULT 36
US-11-045-004-356
; Sequence 356, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIEGER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSURGET, OLIVIER
; APPLICANT: CHETOUANT, PARID
; APPLICANT: NEDJARI, HAMED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERGE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIOUEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NIRIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045.004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 356
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-356

```

```

Query Match      65.2%; Score 30; DB 11; Length 318;
Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

RESULT 37
US-11-087-099-1029
; Sequence 1029, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1029
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Phanerochaete sordida
US-11-087-099-1029

```

```

Query Match      65.2%; Score 30; DB 11; Length 377;
Best Local Similarity 57.1%; Pred. No. 1.5e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      3 QDIETC 9
DB      334 QDIETC 340

```

```

RESULT 38
US-11-087-099-8872
; Sequence 8872, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8872
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-8872

```

```

Query Match      65.2%; Score 30; DB 11; Length 378;
Best Local Similarity 57.1%; Pred. No. 1.5e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      3 QDIETC 9
DB      334 QDIETC 340

```

```

RESULT 39
US-11-087-099-11183
; Sequence 11183, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11183
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-11183

```

```

Query Match      65.2%; Score 30; DB 11; Length 378;
Best Local Similarity 57.1%; Pred. No. 1.5e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

QY 3 QDIETC 9  
||:|:|  
Db 334 QDIETC 340

RESULT 40  
US-11-087-099-3689  
; Sequence 3689, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 3689  
; LENGTH: 380  
; TYPE: PRT  
; ORGANISM: Phanerochaete chrysosporium  
US-11-087-099-3689

Query Match 65.2%; Score 30; DB 11; Length 380;  
Best Local Similarity 57.1%; Pred. No. 1.5e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 QDIETC 9  
||:|:|  
Db 336 QDIETC 342

RESULT 41  
US-11-087-099-10593  
; Sequence 10593, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 10593  
; LENGTH: 382  
; TYPE: PRT  
; ORGANISM: Phanerochaete sordida  
US-11-087-099-10593

Query Match 65.2%; Score 30; DB 11; Length 382;  
Best Local Similarity 44.4%; Pred. No. 1.5e+02;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLODIETC 9  
||:|:|  
Db 336 SLODIETC 344

RESULT 42  
US-11-087-099-12203  
; Sequence 12203, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 12203  
; LENGTH: 382  
; TYPE: PRT  
; ORGANISM: Phanerochaete chrysosporium

US-11-087-099-12203

Query Match 65.2%; Score 30; DB 11; Length 382;  
Best Local Similarity 57.1%; Pred. No. 1.5e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 3 QDIETC 9  
||:|:|  
Db 338 QDIETC 344

RESULT 43  
US-10-763-712A-18  
; Sequence 18, Application US/10763712A  
; Publication No. US2005026541A1  
; GENERAL INFORMATION:  
; APPLICANT: Solazyme, Inc.  
; APPLICANT: Dillon, Harrison F.  
; TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen  
; FILE REFERENCE: H2042101-CIP  
; CURRENT APPLICATION NUMBER: US/10/763,712A  
; CURRENT FILING DATE: 2004-01-21  
; PRIOR APPLICATION NUMBER: US 10/287,750  
; PRIOR FILING DATE: 2003-04-12  
; PRIOR APPLICATION NUMBER: US 10/411,910  
; PRIOR FILING DATE: 2003-09-03  
; NUMBER OF SEQ ID NOS: 184  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 18  
; LENGTH: 1206  
; TYPE: PRT  
; ORGANISM: *Nyctotherus ovalis*  
US-10-763-712A-18

Query Match 65.2%; Score 30; DB 9; Length 1206;  
Best Local Similarity 44.4%; Pred. No. 5.3e+02;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLODIETC 9  
||:|:|  
Db 940 SLODIETC 948

RESULT 44  
US-10-763-712A-99  
; Sequence 99, Application US/10763712A  
; Publication No. US2005026541A1  
; GENERAL INFORMATION:  
; APPLICANT: Solazyme, Inc.  
; APPLICANT: Dillon, Harrison F.  
; TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen  
; FILE REFERENCE: H2042101-CIP  
; CURRENT APPLICATION NUMBER: US/10/763,712A  
; CURRENT FILING DATE: 2004-01-21  
; PRIOR APPLICATION NUMBER: US 10/287,750  
; PRIOR FILING DATE: 2003-04-12  
; PRIOR APPLICATION NUMBER: US 10/411,910  
; PRIOR FILING DATE: 2003-09-03  
; NUMBER OF SEQ ID NOS: 184  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 99  
; LENGTH: 1206  
; TYPE: PRT  
; ORGANISM: *Nyctotherus ovalis*  
US-10-763-712A-99

Query Match 65.2%; Score 30; DB 9; Length 1206;

Best Local Similarity 44.4%; Pred. No. 5.3e+02;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 9  
Db 940 SIKDVQSTC 948

RESULT 45

US-11-191-374-10  
; Sequence 10, Application US/11191374  
; Publication No. US20050260673A1

GENERAL INFORMATION:

APPLICANT: Hresko, Michelle Coutu  
APPLICANT: McLaIRD, Merry B.  
APPLICANT: Williams, Deryck J.  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Sigun

TITLE OF INVENTION: NEMATODE PAN AND ZP RECEPTOR-LIKE

FILE REFERENCE: 12557-015001

CURRENT APPLICATION NUMBER: US/11/191,374

PRIOR FILING DATE: 2005-07-28

PRIOR APPLICATION NUMBER: US/10/771,708

PRIOR FILING DATE: 2004-02-04

PRIOR APPLICATION NUMBER: US 60/444,771

PRIOR FILING DATE: 2003-02-04

NUMBER OF SEQ ID NOS: 54

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 1210

TYPE: PR

ORGANISM: Meloidogyne javanica

US-11-191-374-10

Query Match Best Local Similarity 65.2%; Score 30; DB 11; Length 1210;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 8  
Db 106 SLQDINLT 113

RESULT 46

US-11-191-375-10  
; Sequence 10, Application US/11191375  
; Publication No. US20050260674A1

GENERAL INFORMATION:

APPLICANT: Hresko, Michelle Coutu  
APPLICANT: McLaIRD, Merry B.  
APPLICANT: Williams, Deryck J.  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Sigun

TITLE OF INVENTION: NEMATODE PAN AND ZP RECEPTOR-LIKE

FILE REFERENCE: 12557-015001

CURRENT APPLICATION NUMBER: US/11/191,375

PRIOR FILING DATE: 2005-07-28

PRIOR APPLICATION NUMBER: US/10/771,708

PRIOR FILING DATE: 2004-02-04

PRIOR APPLICATION NUMBER: US 60/444,771

PRIOR FILING DATE: 2003-02-04

NUMBER OF SEQ ID NOS: 54  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10  
LENGTH: 1210  
TYPE: PR

ORGANISM: Meloidogyne javanica  
US-11-191-375-10

Query Match Best Local Similarity 65.2%; Score 30; DB 11; Length 1210;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 8  
Db 106 SLQDINLT 113

RESULT 47

US-11-191-588-10  
; Sequence 10, Application US/11191588  
; Publication No. US2005028222A1

GENERAL INFORMATION:

APPLICANT: Hresko, Michelle Coutu  
APPLICANT: McLaIRD, Merry B.  
APPLICANT: Williams, Deryck J.  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Sigun

TITLE OF INVENTION: NEMATODE PAN AND ZP RECEPTOR-LIKE

FILE REFERENCE: 12557-015001

CURRENT APPLICATION NUMBER: US/11/191,588

PRIOR FILING DATE: 2005-07-28

PRIOR APPLICATION NUMBER: US/10/771,708

PRIOR FILING DATE: 2004-02-04

PRIOR APPLICATION NUMBER: US 60/444,771

PRIOR FILING DATE: 2003-02-04

NUMBER OF SEQ ID NOS: 54

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 1210

TYPE: PR

ORGANISM: Meloidogyne javanica

US-11-191-588-10

Query Match Best Local Similarity 65.2%; Score 30; DB 11; Length 1210;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 SLQDIETC 8  
Db 106 SLQDINLT 113

RESULT 48

US-10-511-096-2  
; Sequence 2, Application US/10511096  
; Publication No. US20060052280A1

GENERAL INFORMATION:

APPLICANT: Evotec Neurosciences GmbH  
APPLICANT: Frevert, Anita M.  
APPLICANT: Chiappelli, Brandi  
APPLICANT: Baublite, Catherine  
APPLICANT: Kloek, Andrew P.  
APPLICANT: Davila-Aponte, Jennifer A.  
APPLICANT: Bradley, John D.

APPLICANT: Xu, Sigun

TITLE OF INVENTION: Diagnostic and therapeutic use of a Golgi protein for

FILE REFERENCE: P67813US1

CURRENT APPLICATION NUMBER: US/10/511,096

PRIOR FILING DATE: 2004-10-14

NUMBER OF SEQ ID NOS: 27

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 2228



TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-511-096-2

Query Match 65.2%; Score 30; DB 9; Length 2228;  
 Best Local Similarity 55.6%; Pred. No. 1e+03; 1; Indels 0; Gaps 0;  
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
 :||:|:|  
 Db 1841 TLQEKELTC 1849

RESULT 49  
 US-10-511-096-4  
 ; Sequence 4, Application US/10511096  
 ; Publication No. US2006052280A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Evotec Neurosciences GmbH  
 ; TITLE OF INVENTION: Diagnostic and therapeutic use of a Golgi protein for  
 ; TITLE OF INVENTION: neurodegenerative diseases  
 ; FILE REFERENCE: P67813US1  
 ; CURRENT APPLICATION NUMBER: US/10/511,096  
 ; CURRENT FILING DATE: 2004-10-14  
 ; NUMBER OF SEQ ID NOS: 27  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 4  
 ; LENGTH: 2230  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-511-096-4

Query Match 65.2%; Score 30; DB 9; Length 2230;  
 Best Local Similarity 55.6%; Pred. No. 1e+03; 1; Indels 0; Gaps 0;  
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
 :||:|:|  
 Db 1841 TLQEKELTC 1849

RESULT 50  
 US-10-511-096-6  
 ; Sequence 6, Application US/10511096  
 ; Publication No. US2006052280A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Evotec Neurosciences GmbH  
 ; TITLE OF INVENTION: Diagnostic and therapeutic use of a Golgi protein for  
 ; TITLE OF INVENTION: neurodegenerative diseases  
 ; FILE REFERENCE: P67813US1  
 ; CURRENT APPLICATION NUMBER: US/10/511,096  
 ; CURRENT FILING DATE: 2004-10-14  
 ; NUMBER OF SEQ ID NOS: 27  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 6  
 ; LENGTH: 2250  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-511-096-6

Query Match 65.2%; Score 30; DB 9; Length 2250;  
 Best Local Similarity 55.6%; Pred. No. 1e+03; 1; Indels 0; Gaps 0;  
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 SLQDIETC 9  
 :||:|:|  
 Db 1863 TLQEKELTC 1871

Search completed: May 5, 2006, 07:56:41  
 Job time : 9.4 secs

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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds  
(without alignments)  
35.773 Million cell updates/sec

Title: US-08-170-344-23  
Perfect score: 46  
Sequence: 1 LODIETVCV 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database :  
1: /cgn2\_6/ptodata/1/1aa/5-COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/6-COMB.pep:\*  
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4: /cgn2\_6/ptodata/1/1aa/PCITUS-COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RE-COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	100.0	10	2	US-08-159-339A-86
2	46	100.0	15	2	US-08-159-339A-1176
3	46	100.0	32	1	US-08-466-285-2
4	46	100.0	32	2	US-08-164-768-2
5	46	100.0	158	1	US-08-247-904B-10
6	46	100.0	158	1	US-08-767-942A-19
7	46	100.0	271	1	US-08-117-083-14
8	46	100.0	278	2	US-09-485-885-21
9	46	100.0	383	2	US-09-485-885-23
10	40	87.0	127	2	US-09-252-991A-28397
11	37	80.4	873	1	US-08-912-129A-61
12	37	80.4	873	2	US-08-911-824-61
13	35	76.1	724	2	US-09-248-796A-19040
14	34	73.9	369	2	US-09-519-232-74
15	34	73.9	509	2	US-08-809-999D-17
16	34	73.9	509	2	US-09-069-637-17
17	34	73.9	509	2	US-09-322-360-17
18	34	73.9	509	2	US-09-131-831B-17
19	34	73.9	528	2	US-09-949-016-11233
20	34	73.9	3135	1	US-08-323-170B-2
21	34	73.9	3135	2	US-08-954-441-2
22	33	71.7	519	2	US-09-720-655B-1
23	33	71.7	520	2	US-08-964-127-2
24	33	71.7	520	2	US-09-496-692-2
25	33	71.7	520	2	US-10-000-273-2
26	33	71.7	839	2	US-09-949-016-10846
27	32	69.6	53	2	US-09-270-767-61394

28	32	69.6	303	2	US-09-270-767-45862
29	32	69.6	402	2	US-09-270-767-46012
30	31	67.4	205	2	US-09-134-001C-4766
31	31	67.4	374	2	US-09-638-937-2
32	31	67.4	826	2	US-09-248-796A-14387
33	31	67.4	852	2	US-09-585-858-19
34	31	67.4	852	2	US-10-270-878-18
35	31	67.4	934	2	US-09-949-002-289
36	31	67.4	981	2	US-09-949-002-513
37	31	67.4	1039	2	US-09-501-136-2
38	31	67.4	1194	1	US-08-680-326-35
39	31	67.4	4968	2	US-09-424-783-5
40	30	65.2	10	2	US-09-051-529-1
41	30	65.2	55	2	US-09-621-976-6262
42	30	65.2	72	2	US-08-621-976-6737
43	30	65.2	126	2	US-09-469-039A-8230
44	30	65.2	281	2	US-09-949-016-6831
45	30	65.2	324	2	US-09-949-016-7870
46	30	65.2	363	2	US-09-328-352-7018
47	30	65.2	455	2	US-09-949-016-6949
48	30	65.2	455	2	US-09-949-016-11026
49	30	65.2	472	1	US-08-749-903-4
50	30	65.2	472	1	US-08-749-903-5
51	30	65.2	472	2	US-09-088-641-4
52	30	65.2	472	2	US-09-088-641-5
53	30	65.2	480	2	US-09-328-352-6949
54	30	65.2	484	2	US-09-134-001C-5402
55	30	65.2	1581	2	US-09-866-108A-15754
56	30	65.2	1695	2	US-09-866-108A-15753
57	30	65.2	4861	2	US-09-919-497-710
58	29	63.0	61	2	US-09-328-352-7170
59	29	63.0	68	2	US-09-44E-480D-22
60	29	63.0	70	2	US-09-270-767-58987
61	29	63.0	134	2	US-09-328-352-6876
62	29	63.0	138	2	US-09-270-767-32066
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288	27	58.7	219	2	US-09-328-352-4370	Sequence 4370, Ap	361	27	58.7	465	2	US-09-252-991A-17635	Sequence 17635, A
289	27	58.7	231	2	US-09-538-092-393	Sequence 393, App	362	27	58.7	470	2	US-09-828-995B-11	Sequence 11, Appli
290	27	58.7	237	2	US-10-147-874-11	Sequence 11, Appli	363	27	58.7	470	2	US-09-291-289A-1	Sequence 1, Appli
291	27	58.7	237	2	US-09-134-001C-4213	Sequence 4213, Ap	364	27	58.7	471	2	US-10-104-047-3482	Sequence 3482, Ap
292	27	58.7	242	2	US-09-710-279-3288	Sequence 3288, Ap	365	27	58.7	475	2	US-09-328-352-4223	Sequence 4, Appli
293	27	58.7	253	2	US-09-602-787A-460	Sequence 460, App	366	27	58.7	476	2	US-09-811-469-4	Sequence 4, Appli
294	27	58.7	253	2	US-09-270-767-41091	Sequence 41091, A	367	27	58.7	476	2	US-10-370-659-4	Sequence 3, Appli
295	27	58.7	258	2	US-09-270-767-56307	Sequence 56307, A	368	27	58.7	478	2	US-09-291-289A-1	Sequence 2, Appli
296	27	58.7	264	2	US-08-564-164A-4	Sequence 4253, Ap	369	27	58.7	485	2	US-09-770-916-2	Sequence 2542, A
297	27	58.7	268	2	US-09-248-796A-14566	Sequence 14566, A	370	27	58.7	492	2	US-09-252-991A-25242	Sequence 3481, Ap
298	27	58.7	277	2	US-09-134-000C-4158	Sequence 4158, Ap	371	27	58.7	504	2	US-10-104-047-3481	Sequence 20418, A
299	27	58.7	281	2	US-09-583-110-3551	Sequence 3551, Ap	372	27	58.7	511	2	US-09-248-796A-20418	Sequence 2, Appli
300	27	58.7	283	2	US-09-252-991A-29465	Sequence 29465, A	373	27	58.7	511	2	US-09-105-039A-2	Sequence 4, Appli
301	27	58.7	285	2	US-09-489-039A-29780	Sequence 29780, A	374	27	58.7	530	2	US-09-105-039A-4	Sequence 992, App
302	27	58.7	285	2	US-10-272-490-44	Sequence 44, Appli	375	27	58.7	536	2	US-09-538-092-992	Sequence 6, Appli
303	27	58.7	287	2	US-09-489-039A-13403	Sequence 13403, A	376	27	58.7	558	2	US-08-838-357-6	Sequence 6, Appli
304	27	58.7	287	2	US-09-107-433-4860	Sequence 1774, Ap	377	27	58.7	559	2	US-09-606-304-6	Sequence 9138, Ap
305	27	58.7	294	2	US-09-111-164-459	Sequence 459, App	378	27	58.7	559	2	US-09-949-016-9138	Sequence 9138, Ap
306	27	58.7	294	2	US-09-457-046B-10	Sequence 12425, A	379	27	58.7	559	2	US-09-949-016-9140	Sequence 9140, Ap
307	27	58.7	294	2	US-09-489-039A-12425	Sequence 2926, Ap	380	27	58.7	559	2	US-09-949-016-9140	Sequence 9140, Ap
308	27	58.7	295	2	US-08-893-654B-6	Sequence 6, Appli	381	27	58.7	561	2	US-09-949-016-9141	Sequence 9141, Ap
309	27	58.7	295	2	US-08-893-654B-6	Sequence 11751, A	382	27	58.7	563	2	US-09-828-995B-81	Sequence 81, Appli
310	27	58.7	298	2	US-09-489-039A-11751	Sequence 5017, Ap	383	27	58.7	571	2	US-09-949-016-9404	Sequence 10801, A
311	27	58.7	301	2	US-09-328-352-5017	Sequence 60386, A	384	27	58.7	571	2	US-09-949-016-9404	Sequence 9404, Ap
312	27	58.7	301	2	US-09-270-767-60398	Sequence 10, Appli	385	27	58.7	576	2	US-09-949-016-9405	Sequence 9405, Ap
313	27	58.7	302	2	US-09-457-046B-10	Sequence 10, Appli	386	27	58.7	576	2	US-09-949-016-9406	Sequence 9406, Ap
314	27	58.7	302	2	US-09-866-570B-10	Sequence 11, Appli	387	27	58.7	576	2	US-09-949-016-9407	Sequence 9407, Ap
315	27	58.7	304	2	US-09-587-789-11	Sequence 2062, Ap	388	27	58.7	576	2	US-09-949-016-9407	Sequence 8267, Ap
316	27	58.7	305	2	US-09-107-433-2732	Sequence 2732, Ap	389	27	58.7	583	2	US-09-949-016-11626	Sequence 11626, A
317	27	58.7	308	2	US-09-134-001C-4927	Sequence 4927, Ap	390	27	58.7	588	2	US-09-248-796A-17389	Sequence 17389, A
318	27	58.7	309	2	US-09-538-092-256	Sequence 256, App	391	27	58.7	592	2	US-09-902-540-11516	Sequence 11516, A
319	27	58.7	312	2	US-09-538-092-256	Sequence 256, App	392	27	58.7	607	2	US-09-902-540-11516	Sequence 11516, A

393	27	58.7	610	2	US-09-949-016-7510	Sequence 7510, Ap	466	27	58.7	1367	1	US-07-813-593-4	Sequence 4, Appl1
394	27	58.7	610	2	US-10-104-047-2672	Sequence 2672, Ap	467	27	58.7	1367	1	US-07-977-451-6	Sequence 6, Appl1
395	27	58.7	619	2	US-09-538-092-94	Sequence 94, Appl	468	27	58.7	1367	1	US-07-946-507-4	Sequence 6, Appl1
396	27	58.7	624	1	US-08-642-406A-22	Sequence 22, Appl	469	27	58.7	1367	1	US-08-252-517-6	Sequence 6, Appl1
397	27	58.7	624	2	US-09-199-534-22	Sequence 22, Appl	470	27	58.7	1367	1	US-07-906-397A-6	Sequence 6, Appl1
398	27	58.7	624	2	US-09-159-534-22	Sequence 22, Appl	471	27	58.7	1367	1	US-08-601-891-6	Sequence 6, Appl1
399	27	58.7	624	2	US-09-481-322-22	Sequence 22, Appl	472	27	58.7	1367	1	US-08-443-861-2	Sequence 2, Appl1
400	27	58.7	647	2	US-09-725-735A-18	Sequence 18, Appl	473	27	58.7	1367	1	US-09-021-324-6	Sequence 6, Appl1
401	27	58.7	649	2	US-09-134-000C-5302	Sequence 5302, Ap	474	27	58.7	1367	2	US-08-193-829B-2	Sequence 2, Appl1
402	27	58.7	653	2	US-09-171-937C-27	Sequence 27, Appl	475	27	58.7	1367	2	US-09-872-136B-6	Sequence 6, Appl1
403	27	58.7	666	2	US-08-982-785A-11	Sequence 11, Appl	476	27	58.7	1367	2	US-09-766-678-2	Sequence 2, Appl1
404	27	58.7	666	2	US-09-629-498-11	Sequence 11, Appl	477	27	58.7	1367	2	US-09-919-408A-6	Sequence 8, Appl1
405	27	58.7	669	2	US-09-949-016-6887	Sequence 6887, Ap	478	27	58.7	1367	4	PCT-US92-02750-8	Sequence 8, Appl1
406	27	58.7	677	2	US-09-949-016-8351	Sequence 8351, Ap	479	27	58.7	1367	4	PCT-US92-05401-6	Sequence 6, Appl1
407	27	58.7	680	2	US-08-211-430-2	Sequence 2, Appl1	480	27	58.7	1367	2	US-09-538-092-413	Sequence 413, App
408	27	58.7	680	2	US-08-761-136-1	Sequence 1, Appl1	481	27	58.7	1411	2	US-08-755-587-184	Sequence 184, App
409	27	58.7	680	2	US-09-576-967-1	Sequence 1, Appl1	482	27	58.7	1579	2	US-08-755-587-183	Sequence 183, App
410	27	58.7	680	2	US-10-219-541-1	Sequence 1, Appl1	483	27	58.7	1683	2	US-08-755-587-16	Sequence 16, Appl
411	27	58.7	681	2	US-09-134-000C-4371	Sequence 4371, Ap	484	27	58.7	2329	2	US-08-639-501-2	Sequence 2, Appl1
412	27	58.7	688	2	US-09-248-796A-17856	Sequence 17856, A	485	27	58.7	3418	1	US-08-603-7530-4	Sequence 4, Appl1
413	27	58.7	692	2	US-09-252-991A-26724	Sequence 26724, A	486	27	58.7	3418	2	US-08-603-7530-4	Sequence 4, Appl1
414	27	58.7	710	2	US-09-252-991A-25700	Sequence 25700, A	487	27	58.7	3418	2	US-09-044-946-2	Sequence 2, Appl1
415	27	58.7	726	2	US-10-104-047-2042	Sequence 2042, Ap	488	27	58.7	3418	2	US-08-755-587-44	Sequence 44, Appl
416	27	58.7	733	2	US-09-270-767-41626	Sequence 41626, A	489	27	58.7	3418	2	US-09-044-908-2	Sequence 2, Appl1
417	27	58.7	738	2	US-08-478-208-32	Sequence 73, Appl	490	27	58.7	3418	2	US-09-099-753-4	Sequence 4, Appl1
418	27	58.7	738	2	US-09-336-536-73	Sequence 73, Appl	491	27	58.7	3418	2	US-08-986-106-4	Sequence 4, Appl1
419	27	58.7	738	6	5264554-2	Sequence 8, Appl1	492	27	58.7	4866	2	US-09-424-783-2	Sequence 2, Appl1
420	27	58.7	767	2	US-08-836-567-8	Sequence 8, Appl1	493	27	58.7	4872	2	US-09-424-783-2	Sequence 3, Appl1
421	27	58.7	767	2	US-09-606-304-8	Sequence 8, Appl1	494	27	58.7	10	2	US-08-482-528-108	Sequence 108, App
422	27	58.7	767	2	US-09-328-352-4613	Sequence 4613, Ap	495	27	58.7	10	2	US-08-482-528-108	Sequence 108, App
423	27	58.7	773	2	US-08-434-000A-2	Sequence 2, Appl1	496	27	58.7	11	1	US-08-623-690-6	Sequence 6, Appl1
424	27	58.7	773	2	US-09-312-157-2	Sequence 2, Appl1	497	27	58.7	12	1	US-08-623-690-7	Sequence 7, Appl1
425	27	58.7	773	2	US-09-717-888-2	Sequence 2, Appl1	498	27	58.7	13	1	US-08-488-252-23	Sequence 23, Appl
426	27	58.7	773	2	US-09-818-447-6	Sequence 6, Appl1	499	27	58.7	13	1	US-08-623-690-8	Sequence 8, Appl1
427	27	58.7	777	2	US-09-811-659-2	Sequence 2, Appl1	500	27	58.7	15	1	US-08-245-853-2	Sequence 2, Appl1
428	27	58.7	777	2	US-10-370-659-2	Sequence 2, Appl1	501	27	58.7	15	1	US-08-573-675-2	Sequence 2, Appl1
429	27	58.7	779	2	US-09-171-937C-25	Sequence 25, Appl	502	27	58.7	15	6	5470825-2	Sequence 4, Appl1
430	27	58.7	805	2	US-08-985-526-34	Sequence 34, Appl	503	27	58.7	21	2	US-10-044-708A-4	Sequence 22, Appl
431	27	58.7	806	1	US-08-443-861-5	Sequence 5, Appl1	504	27	58.7	24	2	US-08-493-235-22	Sequence 22, Appl
432	27	58.7	806	2	US-08-193-829B-5	Sequence 5, Appl1	505	27	58.7	24	2	US-10-076-622-627	Sequence 627, App
433	27	58.7	806	2	US-09-766-678-5	Sequence 5, Appl1	506	27	58.7	27	1	US-08-406-347A-10	Sequence 10, Appl
434	27	58.7	817	2	US-09-710-279-2948	Sequence 2948, Ap	507	27	58.7	31	1	US-08-143-311B-10	Sequence 10, Appl
435	27	58.7	820	2	US-08-779-460B-2	Sequence 2, Appl1	508	27	58.7	31	2	US-08-753-851-12	Sequence 12, Appl
436	27	58.7	834	2	US-09-187-999-11	Sequence 11, Appl	509	27	58.7	33	1	US-08-488-252-11	Sequence 11, Appl
437	27	58.7	834	2	US-10-290-579A-256	Sequence 256, App	510	27	58.7	33	4	PCT-US92-06686-2	Sequence 2, Appl1
438	27	58.7	871	2	US-09-949-016-6814	Sequence 6814, Ap	511	27	58.7	33	5	US-09-270-767-34310	Sequence 34910, A
439	27	58.7	875	2	US-09-585-858-18	Sequence 18, Appl	512	27	58.7	55	2	US-09-270-767-50127	Sequence 50127, A
440	27	58.7	875	2	US-10-270-878-18	Sequence 18, Appl	513	27	58.7	55	2	US-09-270-767-36044	Sequence 36044, A
441	27	58.7	886	2	US-09-134-001C-4496	Sequence 4496, Ap	514	27	58.7	60	2	US-09-270-767-5161	Sequence 5161, A
442	27	58.7	910	2	US-09-134-000C-4677	Sequence 4677, Ap	515	27	58.7	61	2	US-09-248-796A-21117	Sequence 21117, A
443	27	58.7	910	2	US-09-270-767-42083	Sequence 42083, A	516	27	58.7	61	2	US-08-303-861-16	Sequence 16, Appl
444	27	58.7	934	2	US-09-252-991A-25635	Sequence 25635, A	517	27	58.7	66	2	US-08-569-147-85	Sequence 85, Appl
445	27	58.7	947	1	US-08-500-857A-4	Sequence 4, Appl1	518	27	58.7	68	2	US-09-248-796A-26043	Sequence 26043, A
446	27	58.7	947	1	US-08-673-789-7	Sequence 7, Appl1	519	27	58.7	83	2	US-09-513-999C-4553	Sequence 4553, Ap
447	27	58.7	970	1	US-08-449-645A-11	Sequence 11, Appl	520	27	58.7	83	2	US-09-471-276-1470	Sequence 1470, Ap
448	27	58.7	970	1	US-08-702-367A-11	Sequence 11, Appl	521	27	58.7	85	2	US-09-248-796A-16730	Sequence 16730, A
449	27	58.7	970	4	PCT-US95-04681-11	Sequence 11, Appl	522	27	58.7	85	2	US-08-694-699-63	Sequence 63, Appl
450	27	58.7	973	1	US-08-162-809-10	Sequence 10, Appl	523	27	58.7	93	2	US-09-444-410-63	Sequence 63, Appl
451	27	58.7	988	1	US-08-162-809-14	Sequence 14, Appl	524	27	58.7	94	2	US-08-694-699-62	Sequence 62, Appl
452	27	58.7	993	2	US-09-060-410-4	Sequence 4, Appl1	525	27	58.7	94	2	US-09-444-410-62	Sequence 62, Appl
453	27	58.7	993	2	US-09-723-458-4	Sequence 4, Appl1	526	27	58.7	95	2	US-09-270-767-33064	Sequence 33064, A
454	27	58.7	994	2	US-08-542-635-2	Sequence 2, Appl1	527	27	58.7	95	2	US-09-270-767-33572	Sequence 33572, A
455	27	58.7	995	1	US-08-162-809-18	Sequence 18, Appl	528	27	58.7	95	2	US-09-270-767-48481	Sequence 48281, A
456	27	58.7	995	1	US-08-673-789-5	Sequence 5, Appl1	529	27	58.7	95	2	US-09-770-767-48789	Sequence 48789, A
457	27	58.7	1011	1	US-08-162-809-12	Sequence 12, Appl	530	27	58.7	97	1	US-09-047-125-19	Sequence 19, Appl
458	27	58.7	1054	1	US-07-589-467-4	Sequence 4, Appl1	531	27	58.7	97	2	US-07-736-335E-19	Sequence 19, Appl
459	27	58.7	1054	1	US-07-934-374-4	Sequence 4, Appl1	532	27	58.7	100	2	US-08-851-843A-10	Sequence 10, Appl
460	27	58.7	1054	1	US-07-783-861C-2	Sequence 2, Appl1	533	27	58.7	100	2	US-08-854-050-10	Sequence 10, Appl
461	27	58.7	1094	1	US-08-680-326-40	Sequence 40, Appl	534	27	58.7	100	2	US-09-430-323-10	Sequence 10, Appl
462	27	58.7	1220	1	US-08-680-326-38	Sequence 38, Appl	535	27	58.7	100	2	US-09-402-181B-192	Sequence 192, App
463	27	58.7	1270	2	US-09-538-092-1321	Sequence 1321, Ap	536	27	58.7	100	2	US-09-721-456-192	Sequence 192, App
464	27	58.7	1288	1	US-07-727-814B-2	Sequence 2, Appl1	537	27	58.7	100	2	US-09-721-456-192	Sequence 192, App
465	27	58.7	1288	1	US-08-258-614-2	Sequence 2, Appl1	538	27	58.7	100	2	US-09-766-253-10	Sequence 10, Appl

539	26	56.5	100	2	US-10-054-295-10	Sequence 10, Appl	612	26	56.5	212	4	PCT-US95-10245-7	Sequence 7, Appl1
540	26	56.5	100	2	US-09-438-486A-10	Sequence 10, Appl	613	26	56.5	213	2	US-09-252-991A-30766	Sequence 30766, A
541	26	56.5	104	2	US-09-394-268-2	Sequence 2, Appl1	614	26	56.5	217	2	US-09-483-588-5	Sequence 5, Appl1
542	26	56.5	104	2	US-09-687-748-2	Sequence 2, Appl1	615	26	56.5	218	2	US-09-483-588-3	Sequence 3, Appl1
543	26	56.5	105	1	US-08-232-539D-60	Sequence 60, Appl	616	26	56.5	218	2	US-09-483-588-6	Sequence 6, Appl1
544	26	56.5	106	2	US-09-240-234-50	Sequence 50, Appl	617	26	56.5	218	2	US-09-483-588-7	Sequence 7, Appl1
545	26	56.5	106	2	US-09-848-798-50	Sequence 50, Appl	618	26	56.5	222	2	US-09-540-236-2168	Sequence 2168, Ap
546	26	56.5	109	1	US-08-070-116A-4	Sequence 4, Appl1	619	26	56.5	223	2	US-10-135-636-3	Sequence 3, Appl1
547	26	56.5	109	2	US-08-444-644-30	Sequence 30, Appl	620	26	56.5	224	2	US-09-902-540-10058	Sequence 10058, A
548	26	56.5	109	2	US-08-232-246A-30	Sequence 30, Appl	621	26	56.5	224	2	US-09-428-082B-2	Sequence 2, Appl1
549	26	56.5	109	2	US-08-557-050-4	Sequence 4, Appl1	622	26	56.5	228	2	US-09-847-249A-2	Sequence 2, Appl1
550	26	56.5	110	2	US-08-444-644-21	Sequence 21, Appl	623	26	56.5	228	2	US-09-840-669B-2	Sequence 2, Appl1
551	26	56.5	110	2	US-08-444-644-38	Sequence 38, Appl	624	26	56.5	228	2	US-09-843-221A-2	Sequence 27, Appl
552	26	56.5	110	2	US-08-444-644-44	Sequence 44, Appl	625	26	56.5	228	2	US-09-968-362A-27	Sequence 2, Appl1
553	26	56.5	110	2	US-08-233-246A-21	Sequence 21, Appl	626	26	56.5	228	2	US-09-709-704A-2	Sequence 2, Appl1
554	26	56.5	110	2	US-08-233-246A-38	Sequence 38, Appl	627	26	56.5	228	2	US-09-422-838C-5	Sequence 5, Appl1
555	26	56.5	110	2	US-08-232-246A-44	Sequence 44, Appl	628	26	56.5	228	2	US-09-932-812A-27	Sequence 27, Appl
556	26	56.5	112	2	US-09-248-796A-25672	Sequence 25672, A	629	26	56.5	228	2	US-10-666-480-60	Sequence 60, Appl
557	26	56.5	113	2	US-09-198-452A-54	Sequence 54, Appl	630	26	56.5	229	2	US-09-122-144-2	Sequence 2, Appl1
558	26	56.5	113	2	US-09-621-976-4026	Sequence 4026, Ap	631	26	56.5	229	2	US-09-968-362A-28	Sequence 28, Appl
559	26	56.5	114	2	US-09-602-777A-204	Sequence 204, Ap	632	26	56.5	229	2	US-09-932-812A-28	Sequence 28, Appl
560	26	56.5	115	1	US-08-233-539D-55	Sequence 55, Appl	633	26	56.5	232	1	US-07-797-556-4	Sequence 4, Appl1
561	26	56.5	119	2	US-09-232-290-31	Sequence 31, Appl	634	26	56.5	232	1	US-08-225-989-4	Sequence 4, Appl1
562	26	56.5	121	2	US-08-111-080-20	Sequence 20, Appl	635	26	56.5	232	1	US-08-570-923-4	Sequence 4, Appl1
563	26	56.5	121	1	US-08-275-053-9	Sequence 9, Appl	636	26	56.5	232	1	US-08-580-014-4	Sequence 4, Appl1
564	26	56.5	121	1	US-08-211-980-20	Sequence 20, Appl	637	26	56.5	232	1	US-08-308-881-4	Sequence 4, Appl1
565	26	56.5	121	4	PCT-US93-07967-20	Sequence 7, Appl1	638	26	56.5	232	1	US-09-058-863-4	Sequence 4, Appl1
566	26	56.5	129	2	US-09-476-482-7	Sequence 7, Appl1	639	26	56.5	232	1	US-09-059-099-4	Sequence 4, Appl1
567	26	56.5	133	2	US-09-543-681A-5782	Sequence 5782, Ap	640	26	56.5	232	1	US-08-595-043A-50	Sequence 50, Appl
568	26	56.5	134	1	US-08-111-080-16	Sequence 16, Appl	641	26	56.5	232	2	US-09-058-264-4	Sequence 8, Appl1
569	26	56.5	134	1	US-08-211-980-16	Sequence 16, Appl	642	26	56.5	232	2	US-09-058-139-8	Sequence 8, Appl1
570	26	56.5	134	4	PCT-US92-07111-15	Sequence 15, Appl	643	26	56.5	232	2	US-09-079-785-4	Sequence 8, Appl1
571	26	56.5	134	4	PCT-US93-07967-16	Sequence 16, Appl	644	26	56.5	232	2	US-09-08-995-659-8	Sequence 8, Appl1
572	26	56.5	136	2	US-09-621-976-4224	Sequence 4224, Ap	645	26	56.5	232	2	US-09-215-649A-8	Sequence 8, Appl1
573	26	56.5	138	2	US-09-270-767-36400	Sequence 36400, A	646	26	56.5	232	2	US-09-577-780-8	Sequence 8, Appl1
574	26	56.5	138	2	US-09-270-767-51617	Sequence 51617, A	647	26	56.5	232	2	US-09-577-800-8	Sequence 8, Appl1
575	26	56.5	138	2	US-09-438-185A-39	Sequence 39, Appl	648	26	56.5	232	2	US-09-455-962-4	Sequence 8, Appl1
576	26	56.5	138	2	US-09-471-276-1293	Sequence 1293, Ap	649	26	56.5	232	2	US-09-466-486-8	Sequence 8, Appl1
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583	26	56.5	162	2	US-09-513-999C-5049	Sequence 5049, Ap	656	26	56.5	232	2	US-09-628-126-4	Sequence 8, Appl1
584	26	56.5	164	2	US-09-312-283C-385	Sequence 385, App	657	26	56.5	232	2	US-09-865-333-8	Sequence 8, Appl1
585	26	56.5	168	2	US-09-134-000C-5920	Sequence 5920, Ap	658	26	56.5	232	2	US-09-968-362A-26	Sequence 26, Appl1
586	26	56.5	171	2	US-09-640-211A-1058	Sequence 1058, Ap	659	26	56.5	232	2	US-09-932-812A-26	Sequence 26, Appl1
587	26	56.5	173	2	US-09-902-540-11840	Sequence 11840, A	660	26	56.5	232	4	PCT-US95-06530-4	Sequence 4, Appl1
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590	26	56.5	184	2	US-09-270-767-43100	Sequence 43100, A	663	26	56.5	233	2	US-10-071-485-69	Sequence 10, Appl1
591	26	56.5	196	4	PCT-US91-09055-5	Sequence 5, Appl1	664	26	56.5	234	1	US-08-287-959-10	Sequence 30807, A
592	26	56.5	204	6	5187075-6	Patent No. 5187075	665	26	56.5	234	2	US-09-252-991A-30807	Sequence 30807, A
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595	26	56.5	212	1	US-08-663-566A-7	Sequence 7, Appl1	668	26	56.5	235	2	US-09-131-247-6	Sequence 6, Appl1
596	26	56.5	212	1	US-08-620-694A-4	Sequence 4, Appl1	669	26	56.5	235	2	US-09-784-623-6	Sequence 2, Appl1
597	26	56.5	212	1	US-08-936-854-4	Sequence 4, Appl1	670	26	56.5	236	2	US-09-827-668-2	Sequence 2, Appl1
598	26	56.5	212	1	US-08-023-610-7	Sequence 7, Appl1	671	26	56.5	240	2	US-09-583-110-3479	Sequence 3479, Ap
599	26	56.5	212	1	US-08-288-065A-7	Sequence 7, Appl1	672	26	56.5	241	2	US-09-134-000C-3623	Sequence 3623, Ap
600	26	56.5	212	1	US-08-362-240A-7	Sequence 7, Appl1	673	26	56.5	241	2	US-09-915-789A-11	Sequence 11, Appl
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603	26	56.5	212	2	US-09-022-253-4	Sequence 4, Appl1	676	26	56.5	245	1	US-08-236-918A-15	Sequence 15, Appl1
604	26	56.5	212	2	US-09-022-260-4	Sequence 4, Appl1	677	26	56.5	245	1	US-08-347-003-8	Sequence 8, Appl1
605	26	56.5	212	2	US-08-804-372A-5	Sequence 5, Appl1	678	26	56.5	245	2	US-08-906-759-121	Sequence 121, App
606	26	56.5	212	2	US-09-022-259-4	Sequence 4, Appl1	679	26	56.5	245	2	US-08-639-075A-121	Sequence 121, App
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608	26	56.5	212	2	US-09-549-679-4	Sequence 4, Appl1	681	26	56.5	245	2	US-09-012-692-121	Sequence 121, App
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611	26	56.5	212	2	US-10-033-522-2	Sequence 2, Appl1	684	26	56.5	245	2	US-09-150-864A-15	Sequence 15, Appl

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686	26	56.5	247	2	US-09-428-082B-12	Sequence 12, Appl1	759	26	56.5	328	2	US-09-467-638-1	Sequence 1, Appl1
687	26	56.5	248	1	US-08-851-974-3	Sequence 3, Appl1	760	26	56.5	329	2	US-09-313-942-12	Sequence 12, Appl1
688	26	56.5	248	1	US-09-213-390-3	Sequence 3, Appl1	761	26	56.5	329	2	US-10-282-162-12	Sequence 12, Appl1
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692	26	56.5	248	2	US-09-428-082B-1062	Sequence 1062, Ap	765	26	56.5	331	2	US-08-808-720-5	Sequence 5, Appl1
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696	26	56.5	253	2	US-09-428-082B-16	Sequence 16, Appl1	769	26	56.5	331	2	US-09-467-638-5	Sequence 5, Appl1
697	26	56.5	253	2	US-09-428-082B-18	Sequence 18, Appl1	770	26	56.5	332	1	US-08-671-978A-8	Sequence 8, Appl1
698	26	56.5	254	1	US-08-284-918B-33	Sequence 33, Appl1	771	26	56.5	332	2	US-09-332-338-8	Sequence 8, Appl1
699	26	56.5	254	2	US-09-218-950-33	Sequence 33, Appl1	772	26	56.5	334	1	US-08-646-981-16	Sequence 16, Appl1
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705	26	56.5	268	2	US-09-428-082B-8	Sequence 8, Appl1	778	26	56.5	338	2	US-10-012-542-194	Sequence 194, App
706	26	56.5	269	2	US-09-428-082B-10	Sequence 10, Appl1	779	26	56.5	338	2	US-10-115-123-194	Sequence 194, App
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711	26	56.5	274	2	US-10-104-047-2191	Sequence 2191, Ap	784	26	56.5	347	1	US-08-459-657-43	Sequence 43, Appl1
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713	26	56.5	277	2	US-09-428-082B-22	Sequence 22, Appl1	786	26	56.5	347	2	US-08-466-465-8	Sequence 8, Appl1
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717	26	56.5	284	2	US-09-248-796A-19445	Sequence 19445, A	790	26	56.5	351	2	US-09-489-039A-7992	Sequence 7992, Ap
718	26	56.5	290	2	US-09-852-100B-10	Sequence 10, Appl1	791	26	56.5	352	2	US-09-874-132-24	Sequence 24, Appl1
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720	26	56.5	292	2	US-09-328-352-8013	Sequence 8013, Ap	793	26	56.5	352	2	US-09-543-681A-4233	Sequence 4233, Ap
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726	26	56.5	302	2	US-09-915-789A-18	Sequence 18, Appl1	799	26	56.5	361	1	US-08-483-322-6	Sequence 6, Appl1
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732	26	56.5	307	2	US-09-556-972-55	Sequence 55, Appl1	805	26	56.5	364	2	US-09-472-087-100	Sequence 100, App
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740	26	56.5	313	2	US-08-713-556F-36	Sequence 36, Appl1	813	26	56.5	374	2	US-09-227-595-28	Sequence 28, Appl1
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742	26	56.5	313	2	US-09-270-767-33519	Sequence 33519, A	815	26	56.5	374	2	US-08-595-590B-28	Sequence 28, Appl1
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745	26	56.5	316	2	US-09-178-869-4	Sequence 4, Appl1	818	26	56.5	375	2	US-09-828-995B-32	Sequence 32, Appl1
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751	26	56.5	326	1	US-08-636-586-9	Sequence 9, Appl1	824	26	56.5	377	2	US-09-227-595A-24	Sequence 24, Appl1
752	26	56.5	326	2	US-08-808-720-3	Sequence 3, Appl1	825	26	56.5	377	2	US-08-595-590B-24	Sequence 24, Appl1
753	26	56.5	326	2	US-09-467-638-3	Sequence 3, Appl1	826	26	56.5	379	2	US-10-679-999-9	Sequence 9, Appl1
754	26	56.5	326	2	US-09-438-185A-580	Sequence 580, App	827	26	56.5	379	2	US-10-679-999-12	Sequence 12, Appl1
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756	26	56.5	327	1	US-08-761-277A-47	Sequence 47, Appl1	829	26	56.5	382	1	US-08-470-299-10	Sequence 10, Appl1
757	26	56.5	327	2	US-09-949-016-8666	Sequence 6666, Ap	830	26	56.5	382	1		



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832	26	56.5	388	2	US-09-131-247-16	Sequence 16, Appli	905	26	56.5	443	4	PCT-US96-13152-4	Sequence 4, Appli
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834	26	56.5	389	2	US-09-131-247-14	Sequence 14, Appli	907	26	56.5	445	2	US-09-620-105B-473	Sequence 473, App
835	26	56.5	389	2	US-09-784-623-14	Sequence 14, Appli	908	26	56.5	445	2	US-09-433-826B-473	Sequence 473, App
836	26	56.5	390	2	US-10-094-944-13	Sequence 13, Appli	909	26	56.5	445	2	US-09-604-287A-473	Sequence 473, App
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850	26	56.5	407	2	US-09-949-016-6156	Sequence 6156, Ap	923	26	56.5	449	2	US-09-680-148-2	Sequence 2, Appli
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852	26	56.5	414	2	US-09-359-268A-28	Sequence 28, Appli	925	26	56.5	449	2	US-09-500-253B-23	Sequence 20, Appli
853	26	56.5	418	2	US-09-833-659A-42	Sequence 42, Appli	926	26	56.5	449	2	US-09-968-362A-20	Sequence 2, Appli
854	26	56.5	419	2	US-08-508-024-7	Sequence 7, Appli	927	26	56.5	449	2	US-10-356-974-2	Sequence 12, Appli
855	26	56.5	419	2	US-09-333-279-7	Sequence 7, Appli	928	26	56.5	449	2	US-08-788-800-12	Sequence 5, Appli
856	26	56.5	419	2	US-09-631-780-7	Sequence 7, Appli	929	26	56.5	450	1	US-09-332-856-5	Sequence 5, Appli
857	26	56.5	419	2	US-10-104-047-3514	Sequence 3514, Ap	930	26	56.5	450	2	US-09-524-100C-5	Sequence 5, Appli
858	26	56.5	422	2	US-09-602-777A-202	Sequence 202, Ap	931	26	56.5	450	2	US-10-212-507-5	Sequence 28, Appli
859	26	56.5	423	2	US-09-833-659A-44	Sequence 44, Appli	932	26	56.5	450	2	US-09-809-665A-28	Sequence 208, App
860	26	56.5	424	2	US-09-333-593A-8	Sequence 8, Appli	933	26	56.5	450	2	US-09-996-288-210	Sequence 210, App
861	26	56.5	424	4	PCT-US95-0386B-12	Sequence 12, Appli	934	26	56.5	450	2	US-09-996-288-210	Sequence 212, App
862	26	56.5	424	4	PCT-US95-0386B-14	Sequence 14, Appli	935	26	56.5	450	2	US-09-996-288-212	Sequence 214, App
863	26	56.5	426	2	US-09-605-703B-2042	Sequence 2042, Ap	936	26	56.5	450	2	US-09-996-288-216	Sequence 216, App
864	26	56.5	429	2	US-09-372-425A-6	Sequence 6, Appli	937	26	56.5	450	2	US-09-996-288-216	Sequence 218, App
865	26	56.5	429	2	US-09-270-767-45937	Sequence 45937, A	938	26	56.5	450	2	US-09-996-288-220	Sequence 220, App
866	26	56.5	431	2	US-09-592-998C-9	Sequence 9, Appli	939	26	56.5	450	2	US-09-996-288-222	Sequence 222, App
867	26	56.5	431	2	US-09-773-877B-27	Sequence 27, Appli	940	26	56.5	450	2	US-09-996-288-224	Sequence 224, App
868	26	56.5	432	2	US-08-477-460B-2	Sequence 2, Appli	941	26	56.5	450	2	US-09-996-288-224	Sequence 226, App
869	26	56.5	432	2	US-08-379-516-2	Sequence 2, Appli	942	26	56.5	450	2	US-09-996-288-226	Sequence 228, App
870	26	56.5	432	2	US-09-329-916-2	Sequence 2, Appli	943	26	56.5	450	2	US-09-996-288-228	Sequence 230, App
871	26	56.5	432	2	US-08-485-372A-2	Sequence 2, Appli	944	26	56.5	450	2	US-09-996-288-232	Sequence 232, App
872	26	56.5	432	2	US-09-409-006A-2	Sequence 2, Appli	945	26	56.5	450	2	US-09-996-288-235	Sequence 235, App
873	26	56.5	432	2	US-08-484-681-2	Sequence 2, Appli	946	26	56.5	450	2	US-09-996-288-236	Sequence 236, App
874	26	56.5	432	2	US-09-389-681-181	Sequence 181, App	947	26	56.5	450	2	US-09-996-288-238	Sequence 238, App
875	26	56.5	432	2	US-09-620-405B-181	Sequence 181, App	948	26	56.5	450	2	US-09-996-288-240	Sequence 240, App
876	26	56.5	432	2	US-09-339-338-181	Sequence 181, App	949	26	56.5	450	2	US-09-996-288-242	Sequence 242, App
877	26	56.5	432	2	US-09-433-826B-181	Sequence 181, App	950	26	56.5	450	2	US-09-996-288-244	Sequence 244, App
878	26	56.5	432	2	US-09-604-287A-181	Sequence 181, App	951	26	56.5	450	2	US-09-996-288-246	Sequence 246, App
879	26	56.5	432	2	US-09-825-480-181	Sequence 181, App	952	26	56.5	450	2	US-09-996-288-248	Sequence 248, App
880	26	56.5	432	2	US-09-834-759-181	Sequence 2, Appli	953	26	56.5	450	2	US-09-996-288-250	Sequence 250, App
881	26	56.5	432	2	US-09-766-995-2	Sequence 181, App	954	26	56.5	450	2	US-09-996-288-252	Sequence 252, App
882	26	56.5	432	2	US-09-590-751A-181	Sequence 181, App	955	26	56.5	450	2	US-09-996-288-254	Sequence 254, App
883	26	56.5	432	2	US-09-551-621-181	Sequence 181, App	956	26	56.5	450	2	US-09-996-288-256	Sequence 256, App
884	26	56.5	432	2	US-09-551-621A-181	Sequence 181, App	957	26	56.5	450	2	US-09-996-288-256	Sequence 256, App
885	26	56.5	432	2	US-10-076-622-181	Sequence 181, App	958	26	56.5	450	2	US-09-996-288-258	Sequence 208, App
886	26	56.5	432	4	PCT-US93-07422-2	Sequence 2, Appli	959	26	56.5	450	2	US-09-996-285-210	Sequence 210, App
887	26	56.5	434	2	US-09-252-991A-22522	Sequence 22522, A	960	26	56.5	450	2	US-09-996-285-212	Sequence 212, App
888	26	56.5	435	2	US-09-592-998C-10	Sequence 10, Appli	961	26	56.5	450	2	US-09-996-285-214	Sequence 214, App
889	26	56.5	435	2	US-09-932-812A-22	Sequence 22, Appli	962	26	56.5	450	2	US-09-996-285-216	Sequence 216, App
890	26	56.5	436	2	US-09-932-812A-18	Sequence 18, Appli	963	26	56.5	450	2	US-09-996-285-218	Sequence 218, App
891	26	56.5	437	4	US-09-932-812A-20	Sequence 20, Appli	964	26	56.5	450	2	US-09-996-285-222	Sequence 222, App
892	26	56.5	437	4	PCT-US96-10043-11	Sequence 11, Appli	965	26	56.5	450	2	US-09-996-285-224	Sequence 224, App
893	26	56.5	438	1	US-08-097-827-11	Sequence 11, Appli	966	26	56.5	450	2	US-09-996-285-226	Sequence 226, App
894	26	56.5	438	1	US-08-494-574-11	Sequence 11, Appli	967	26	56.5	450	2	US-09-996-285-228	Sequence 228, App
895	26	56.5	438	2	US-09-198-452A-985	Sequence 985, App	968	26	56.5	450	2	US-09-996-285-232	Sequence 232, App
896	26	56.5	442	1	US-08-480-036-2	Sequence 2, Appli	969	26	56.5	450	2	US-09-996-285-234	Sequence 234, App
897	26	56.5	442	1	US-08-461-968A-2	Sequence 2, Appli	970	26	56.5	450	2	US-09-996-285-236	Sequence 236, App
898	26	56.5	442	1	US-08-461-968A-5	Sequence 5, Appli	971	26	56.5	450	2	US-09-996-285-238	Sequence 238, App
899	26	56.5	442	1	US-08-462-571-2	Sequence 2, Appli	972	26	56.5	450	2	US-09-996-285-240	Sequence 240, App
900	26	56.5	442	1	US-08-462-571-5	Sequence 5, Appli	973	26	56.5	450	2	US-09-996-285-242	Sequence 242, App
901	26	56.5	442	2	US-08-472-888A-2	Sequence 2, Appli	974	26	56.5	450	2	US-09-996-285-244	Sequence 244, App
902	26	56.5	442	2	US-08-472-888A-7	Sequence 7, Appli	975	26	56.5	450	2	US-09-996-285-246	Sequence 246, App
903	26	56.5	442	4	PCT-US96-10043-9	Sequence 9, Appli	976	26	56.5	450	2	US-09-996-285-246	Sequence 246, App

577 26 56.5 450 2 US-09-996-265-248 Sequence 248, App  
578 26 56.5 450 2 US-09-996-265-250 Sequence 250, App  
579 26 56.5 450 2 US-09-996-265-252 Sequence 252, App  
580 26 56.5 450 2 US-09-996-265-254 Sequence 254, App  
581 26 56.5 450 2 US-09-996-265-256 Sequence 256, App  
582 26 56.5 450 2 US-10-135-636-1 Sequence 1, Appl  
583 26 56.5 451 1 US-08-887-352B-14 Sequence 14, Appl  
584 26 56.5 451 1 US-08-887-352B-16 Sequence 16, Appl  
585 26 56.5 451 1 US-08-887-352B-18 Sequence 18, Appl  
586 26 56.5 451 2 US-08-466-151-65 Sequence 65, Appl  
587 26 56.5 451 2 US-09-109-207C-14 Sequence 14, Appl  
588 26 56.5 451 2 US-09-109-207C-16 Sequence 16, Appl  
589 26 56.5 451 2 US-09-109-207C-18 Sequence 18, Appl  
590 26 56.5 451 2 US-09-282-505-2 Sequence 2, Appl  
591 26 56.5 451 2 US-09-054-255-2 Sequence 2, Appl  
592 26 56.5 451 2 US-09-296-005-14 Sequence 14, Appl  
593 26 56.5 451 2 US-09-296-005-16 Sequence 16, Appl  
594 26 56.5 451 2 US-09-296-005-18 Sequence 18, Appl  
595 26 56.5 451 2 US-09-247-352-3 Sequence 3, Appl  
596 26 56.5 451 2 US-09-466-635-3 Sequence 3, Appl  
597 26 56.5 451 2 US-09-282-846-2 Sequence 2, Appl  
598 26 56.5 451 2 US-09-680-145-2 Sequence 2, Appl  
599 26 56.5 451 2 US-09-920-171-14 Sequence 14, Appl  
1000 26 56.5 451 2 US-09-920-171-16 Sequence 16, Appl

## ALIGNMENTS

RESULT 1  
US-08-159-339A-86  
Sequence 86, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Cellis, Esteban  
TITLE OF INVENTION: HLA Binding peptides and Their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 86:

SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-86

Query Match 100.0%; Score 46; DB 2; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.015;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LQDIETCV 9  
|||||  
Db 1 LQDIETCV 9

RESULT 2  
US-08-159-339A-1176  
Sequence 1176, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Cellis, Esteban  
TITLE OF INVENTION: HLA Binding peptides and Their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1176:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1176

Query Match 100.0%; Score 46; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.023;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
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Db 4 LODIETCV 12

## RESULT 3

US-08-466-285-2  
; Sequence 2, Application US/08466285  
; Patent No. 5753223  
; GENERAL INFORMATION:  
; APPLICANT: BLEUL, Conrad  
; APPLICANT: GISSMANN, Lutz  
; APPLICANT: MULLER, Martin  
; TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
; TITLE OF INVENTION: Human Papillomavirus (HPV) 18  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
; ADDRESS: Dunner  
; STREET: 1300 I Street, N.W., Suite 700  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005-3315  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/466,285  
; FILING DATE: 06-JUN-1995  
; CLASSIFICATION: 424  
; TELECOMMUNICATION INFORMATION:  
; APPLICATION NUMBER: US 08/164,768  
; FILING DATE: 10-DEC-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/947,992  
; FILING DATE: 21-SEP-1992  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/696,953  
; FILING DATE: 08-MAY-1991  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: P 40 15 044.5  
; FILING DATE: 10-MAY-1990  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Manspeizer, David A.  
; REGISTRATION NUMBER: 37,540  
; REFERENCE/DOCKET NUMBER: 05552.1075-03000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 408-4000  
; TELEFAX: (202) 408-4400  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 32 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-466-285-2

Query Match 100.0%; Score 46; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.051;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
|||||  
Db 20 LODIETCV 28

RESULT 4  
US-08-164-768-2  
; Sequence 2, Application US/08164768  
; Patent No. 6322794  
; GENERAL INFORMATION:  
; APPLICANT: BLEUL, Conrad  
; APPLICANT: GISSMANN, Lutz  
; APPLICANT: MULLER, Martin  
; TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FINNEGAN, HENDERSON, FARABOW, GARRETT &  
; ADDRESS: DUNNER, L.L.P.  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/164,768  
; FILING DATE: 10-DEC-1993  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Forman, David S.  
; REGISTRATION NUMBER: 33,694  
; REFERENCE/DOCKET NUMBER: 05552.1075-02000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 408-4400  
; TELEFAX: (202) 408-4400  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 32 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-164-768-2

Query Match 100.0%; Score 46; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.051;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
|||||  
Db 20 LODIETCV 28

## RESULT 5

US-08-247-904B-10  
; Sequence 10, Application US/08247904B  
; Patent No. 5981699  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Eckstein, Jens W.  
; APPLICANT: Draetta, Gullio  
; TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley, Hoag & Bliot  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029, 01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 46; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.28; Mismatches 0; Indels 0; Gaps 0;

OY 1 LODIIRTCV 9  
Db 25 LODIIRTCV 33

RESULT 6  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chin, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029, 04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 46; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.28; Mismatches 0; Indels 0; Gaps 0;

OY 1 LODIIRTCV 9  
Db 25 LODIIRTCV 33

RESULT 7  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bourasnell, Michael E.  
APPLICANT: Inglis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
TITLE OF INVENTION: Papilloma Virus Proteins  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dregger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dregger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 46; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.5; Mismatches 0; Indels 0; Gaps 0;

OY 1 LODIIRTCV 9  
Db 26 LODIIRTCV 34

RESULT 8  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 634224  
GENERAL INFORMATION:

```
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheith, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 21
LENGTH: 278
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-21
```

```
Query Match      100.0%; Score 46; DB 2; Length 278;
Best Local Similarity 100.0%; Pred. No. 0.51;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LQDIETCV 9
Db      136 LQDIETCV 144
```

```
RESULT 9
US-09-485-885-23
Sequence 23, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheith, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 383
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-23
```

```
Query Match      100.0%; Score 46; DB 2; Length 383;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LQDIETCV 9
Db      136 LQDIETCV 144
```

```
RESULT 10
US-09-252-991A-28397
Sequence 28397, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
```

```
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 28397
LENGTH: 127
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28397
```

```
Query Match      87.0%; Score 40; DB 2; Length 127;
Best Local Similarity 77.8%; Pred. No. 3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 LQDIETCV 9
Db      32 LQDIETCV 40
```

```
RESULT 11
US-08-912-129A-61
Sequence 61, Application US/08912129A
Patent No. 5922533
GENERAL INFORMATION:
APPLICANT: VALIARI, ANADRUZEIA S.
APPLICANT: HACKETT, JOHN JR.
APPLICANT: HICKMAN, ROBERT K.
APPLICANT: VARITER, VINCENT A. JR.
APPLICANT: NECKLAMS, ELIZABETH A.
APPLICANT: GOLDEN, ALAN M.
APPLICANT: BRENNAN, CATHERINE A.
APPLICANT: DEVARE, SUSIL G.
TITLE OF INVENTION: RAPID ASSAY FOR SIMULTANEOUS DETECTION AND DIFFERENTIATIO
NUMBER OF SEQUENCES: 89
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch diskette, 1.44 MB
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS (Windows 95)
SOFTWARE: Microsoft Word (ASCII format output)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/912,129A
FILING DATE: 15-AUG-1997
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Danckere, Andreas M.
REGISTRATION NUMBER: 32,652
REFERENCE/DOCKET NUMBER: 6109.US.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847-937-9803
TELEFAX: 847-938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 873 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-912-129A-61
```

Query Match 80.4%; Score 37; DB 1; Length 873;  
Best Local Similarity 100.0%; Pred. No. 87;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIBITCV 9  
| | | | |  
DB 293 DIBITCV 299

## RESULT 12

US-08-911-824-61  
; Sequence 61, Application US/08911824  
; Patent No. 6846905  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Hackett, John R., Jr.  
; APPLICANT: Yamaguchi, Julie  
; APPLICANT: Golden, Alan M.  
; APPLICANT: Brennan, Catherine A.  
; APPLICANT: Hickman, Robert K.  
; APPLICANT: Devare, Sushil G.  
; TITLE OF INVENTION: NOVEL ANTIGEN CONSTRUCTS USEFUL IN THE  
; TITLE OF INVENTION: DETECTION AND DIFFERENTIATION OF ANTIBODIES TO HIV  
; FILE REFERENCE: 6165.US.01  
; CURRENT APPLICATION NUMBER: US/08/911,824  
; CURRENT FILING DATE: 1997-08-15  
; NUMBER OF SEQ ID NOS: 121  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 61  
; LENGTH: 873  
; TYPE: PRT  
; ORGANISM: Human Immunodeficiency Virus  
; FEATURE:  
; OTHER INFORMATION: HIV-1 Group O isolate HAM112  
US-08-911-824-61

Query Match 80.4%; Score 37; DB 2; Length 873;  
Best Local Similarity 100.0%; Pred. No. 87;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIBITCV 9  
| | | | |  
DB 293 DIBITCV 299

## RESULT 13

US-09-248-796A-19040  
; Sequence 19040, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstein et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 19040  
; LENGTH: 724  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-19040

Query Match 76.1%; Score 35; DB 2; Length 724;  
Best Local Similarity 85.7%; Pred. No. 1,7e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 ODIBITC 8

DB 488 EDIBITC 494  
: | | | | |

RESULT 14  
US-09-519-232-74  
; Sequence 74, Application US/09519232  
; Patent No. 6528702  
; GENERAL INFORMATION:  
; APPLICANT: Salmeron, John  
; APPLICANT: Weislo, Laura  
; APPLICANT: Willets, Michael  
; APPLICANT: Mengiste, Tesfaye

; TITLE OF INVENTION: NOVEL PLANT GENES AND USES THEREOF  
; FILE REFERENCE: S-30857A/RIP2095  
; CURRENT APPLICATION NUMBER: US/09/519,232  
; CURRENT FILING DATE: 2000-03-06  
; NUMBER OF SEQ ID NOS: 74  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 74  
; LENGTH: 369  
; TYPE: PRT  
; ORGANISM: Nicotiana tabacum  
US-09-519-232-74

Query Match 73.9%; Score 34; DB 2; Length 369;  
Best Local Similarity 71.4%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIBITCV 9  
| | | | |  
DB 227 DIBITCV 233

RESULT 15  
US-08-809-999D-17  
; Sequence 17, Application US/08809999D  
; Patent No. 6013765  
; GENERAL INFORMATION:  
; APPLICANT: Coullie, Pierre; Ikeda, Hideyuki;  
; APPLICANT: Boon-Falleur, Thierry

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
; TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGC and  
; NUMBER OF SEQUENCES: 18  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski, L.L.P.  
; STREET: 666 Fifth Avenue  
; CITY: New York City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10103

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
; COMPUTER: IBM PS/2  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/809,999D  
; FILING DATE: 9-April-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/316,231  
; FILING DATE: 30-September-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hanson, No. 6013765man D.  
; REGISTRATION NUMBER: 30,946  
; REFERENCE/DOCKET NUMBER: LUD 5386.1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 318-3000  
; TELEFAX: (212) 752-5958  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGS amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-08-809-999D-17

Query Match 73.9%; Score 34; DB 2; Length 509;  
Best Local Similarity 50.0%; Pred. No. 1.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8  
:::|:|:  
DB 235 IEDLEVTC 242

RESULT 16  
US-09-069-637-17  
Sequence 17, Application US/09069637  
Patent No. 6022692  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki;  
APPLICANT: Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGS and Uses Th  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Felte & Lynch  
STREET: 805 Third Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10022  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/069,637  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/809,999  
FILING DATE: 9-April-1997  
APPLICATION NUMBER: 08/316,231  
FILING DATE: 30-September-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Hanson, No. 6022692man D.  
REGISTRATION NUMBER: 30,946  
REFERENCE/DOCKET NUMBER: LUD 5386.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 688-9200  
TELEFAX: (212) 838-3884  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGS amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-09-069-637-17

Query Match 73.9%; Score 34; DB 2; Length 509;  
Best Local Similarity 50.0%; Pred. No. 1.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 1 LODIETC 8  
:::|:|:

DB 235 IEDLEVTC 242

RESULT 17  
US-09-322-360-17  
Sequence 17, Application US/09322360  
Patent No. 6297050  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki;  
APPLICANT: Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGS and  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Fulbright & Jaworski, L.L.P.  
STREET: 666 Fifth Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/322,360  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/809,999  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Hanson, No. 6297050man D.  
REGISTRATION NUMBER: 30,946  
REFERENCE/DOCKET NUMBER: LUD 5386.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 318-3000  
TELEFAX: (212) 752-5958  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 509 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: DAGS amino acid sequence  
NAME/KEY: corresponding to SEQ ID NO:2  
US-09-322-360-17

Query Match 73.9%; Score 34; DB 2; Length 509;  
Best Local Similarity 50.0%; Pred. No. 1.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8  
:::|:|:  
DB 235 IEDLEVTC 242

RESULT 18  
US-09-131-831B-17  
GENERAL INFORMATION:  
APPLICANT: Coulle, Pierre; Ikeda, Hideyuki; Boon-Falleur, Thierry  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules  
TITLE OF INVENTION: Coding For Tumor Rejection Antigen Precursors DAGS and  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
STREET: 666 Fifth Avenue  
CITY: New York City

```
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/131,831B
FILING DATE: 11-Aug-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/809,999
FILING DATE: 9-April-1997
APPLICATION NUMBER: 08/316,231
FILING DATE: 30-September-1994
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6339149man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5386.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3100
TELEFAX: (212) 318-3400
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-131-831B-17
```

```
Query Match      73.9%; Score 34; DB 2; Length 509;
Best Local Similarity 50.0%; Pred. No. 1.8e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
       :|:|:|
Db      235 LEDLEVTC 242
```

```
RESULT 19
US-09-949-016-11233
; Sequence 11233, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11233
; LENGTH: 528
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11233
```

```
Query Match      73.9%; Score 34; DB 2; Length 528;
Best Local Similarity 50.0%; Pred. No. 1.9e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
       :|:|:|
Db      254 LEDLEVTC 261
```

```
RESULT 20
US-08-323-170B-2
; Sequence 2, Application US/08323170B
```

```
; Patent No. 5733772
; GENERAL INFORMATION:
; APPLICANT: Williamson, Kim C.
; APPLICANT: Kasilow, David C.
; TITLE OF INVENTION: Cloning and Expression of Plasmodium
; TITLE OF INVENTION: falciparum Transmembrane Blocking Target Antigen, Pf230
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/323,170B
; FILING DATE: 13-OCT-1994
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/010,409
; FILING DATE: 29-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Quine, Jonathan A.
; REGISTRATION NUMBER: P-41,261
; REFERENCE/DOCKET NUMBER: 015280-113100US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3135 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULAR TYPE: protein
US-08-323-170B-2
```

```
Query Match      73.9%; Score 34; DB 1; Length 3135;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
       :|:|:|
Db      1242 LEDVEISC 1249
```

```
RESULT 21
US-08-954-441-2
; Sequence 2, Application US/0895441
; Patent No. 6316000
; GENERAL INFORMATION:
; APPLICANT: Williamson, Kim C.
; APPLICANT: Kasilow, David C.
; TITLE OF INVENTION: Cloning and Expression of Plasmodium
; TITLE OF INVENTION: falciparum Transmembrane Blocking Target Antigen, Pf230
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
```

```
US-08-954-441-2
; Sequence 2, Application US/08323170B
```



```

; APPLICATION NUMBER: US/08/954,441
; FILING DATE: 20-OCT-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/323,170
; FILING DATE: 13-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/010,409
; FILING DATE: 29-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Einhorn, Gregory P.
; REGISTRATION NUMBER: 38,440
; REFERENCE/DOCKET NUMBER: 015280-113110US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3135 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-08-954-441-2

Query Match 73.9%; Score 34; DB 2; Length 3135;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIEITC 8
Db 1242 LEVEISC 1249

RESULT 22
US-09-720-655B-1
; Sequence 1, Application US/09720655B
; Patent No. 6723521
; GENERAL INFORMATION:
; APPLICANT: YOSHIMOTO, MAKOTO
; APPLICANT: YAZAKI, MADOKA
; APPLICANT: MATSUMOTO, KAYO
; APPLICANT: TAKAYAMA, KIYOSHI
; APPLICANT: TSURITANI, KATSUKI
; TITLE OF INVENTION: SUGAR TRANSPORTER
; FILE REFERENCE: ASA-C034
; CURRENT APPLICATION NUMBER: US/09/720,655B
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: JP 10/187235
; PRIOR FILING DATE: 1998-07-02
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Homo sapiens
;
US-09-720-655B-1

Query Match 71.7%; Score 33; DB 2; Length 519;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIEITC 8
Db 278 LODLENTC 285

RESULT 23
US-08-964-127-2
; Sequence 2, Application US/08964127
; Patent No. 627565
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
```

```

; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
; FILING DATE: 06-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 520 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
;
US-08-964-127-2

Query Match 71.7%; Score 33; DB 2; Length 520;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIEITC 8
Db 278 LODLENTC 285

RESULT 24
US-09-496-692-2
; Sequence 2, Application US/09496692
; Patent No. 6313271
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/496,692
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/964,127
; FILING DATE: 06-NOV-1997
```

```
ATTORNEY/AGENT INFORMATION:
NAME: Crews, Ph.D., L. Lee
REGISTRATION NUMBER: P-43,567
REFERENCE/DOCKET NUMBER: 07334/038001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 520 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-496-692-2

Query Match      71.7%; Score 33; DB 2; Length 520;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LQDIETC 8
Db      278 LQDLENTC 285

RESULT 25
US-10-000-273-2
Sequence 2, Application US/10000273
Patent No. 6573057
GENERAL INFORMATION:
APPLICANT: Grandearl, Andrew David John
TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
MOLECULES
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/000,273
FILING DATE: 02-NOV-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/964,127
FILING DATE: 06-NOV-1997
ATTORNEY/AGENT INFORMATION:
NAME: Crews, Ph.D., L. Lee
REGISTRATION NUMBER: P-43,567
REFERENCE/DOCKET NUMBER: 07334/038001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 520 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-000-273-2

Query Match      71.7%; Score 33; DB 2; Length 520;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
```

```
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LQDIETC 8
Db      278 LQDLENTC 285

RESULT 26
US-09-949-016-10846
Sequence 10846, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10846
LENGTH: 839
TYPE: PRT
ORGANISM: Human
US-09-949-016-10846

Query Match      71.7%; Score 33; DB 2; Length 839;
Best Local Similarity 75.0%; Pred. No. 4.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LQDIETC 8
Db      206 LQDREILC 213

RESULT 27
US-09-270-767-61394
Sequence 61394, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 61394
LENGTH: 53
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-61394

Query Match      69.6%; Score 32; DB 2; Length 53;
Best Local Similarity 75.0%; Pred. No. 39;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LQDIETC 8
Db      7 LQDIETLC 14

RESULT 28
US-09-270-767-45862
Sequence 45862, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
```

APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 45862  
LENGTH: 303  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-45862

Query Match 69.6%; Score 32; DB 2; Length 303;  
Best Local Similarity 75.0%; Pred. No. 2.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 LODIETC 8  
Db 257 LRDIEILC 264

RESULT 29  
US-09-270-767-46012  
Sequence 46012, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 46012  
LENGTH: 402  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-46012

Query Match 69.6%; Score 32; DB 2; Length 402;  
Best Local Similarity 75.0%; Pred. No. 3.4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 LODIETC 8  
Db 132 LODIDIC 139

RESULT 30  
US-09-134-001C-4766  
Sequence 4766, Application US/09134001C  
Patent No. 6380370  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucetle-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: CTC-007  
CURRENT APPLICATION NUMBER: US/09/134,001C  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/064,964  
PRIOR FILING DATE: 1997-11-08  
PRIOR APPLICATION NUMBER: US 60/055,779  
PRIOR FILING DATE: 1997-08-14  
NUMBER OF SEQ ID NOS: 5674  
SEQ ID NO 4766  
LENGTH: 205  
TYPE: PRT  
ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4766

Query Match 67.4%; Score 31; DB 2; Length 205;  
Best Local Similarity 62.5%; Pred. No. 2.5e+02;

Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 LODIETC 8  
Db 192 LRDIEILC 199

RESULT 31  
US-09-638-937-2  
Sequence 2, Application US/09638937  
Patent No. 6593514  
GENERAL INFORMATION:  
APPLICANT: Cahoon, Edgar B  
APPLICANT: Hitz, William D  
APPLICANT: Ripp, Kevin G  
TITLE OF INVENTION: METHOD FOR THE PRODUCTION OF CALENDIC ACID, AN UNUSUAL  
TITLE OF INVENTION: FATTY ACID CONTAINING DELTA-8,10,12 CONJUGATED DOUBLE  
TITLE OF INVENTION: BONDS  
FILE REFERENCE:  
CURRENT APPLICATION NUMBER: US/09/638,937  
CURRENT FILING DATE: 2000-08-15  
PRIOR APPLICATION NUMBER: BB-1371-P1  
PRIOR FILING DATE: 1999-08-16  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 2  
LENGTH: 374  
TYPE: PRT  
ORGANISM: Calendula officinalis  
US-09-638-937-2

Query Match 67.4%; Score 31; DB 2; Length 374;  
Best Local Similarity 55.6%; Pred. No. 4.8e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIETC 9  
Db 47 LHDIVTCT 55

RESULT 32  
US-09-248-796A-14387  
Sequence 14387, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICA  
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 14387  
LENGTH: 826  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-14387

Query Match 67.4%; Score 31; DB 2; Length 826;  
Best Local Similarity 62.5%; Pred. No. 1.1e+03;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
Db 659 LODIETVC 666

RESULT 33  
US-09-585-858-19

```
; Sequence 19, Application US/09585858
; Patent No. 6492161
; GENERAL INFORMATION:
; APPLICANT: Sigríður Hjörleifsdóttir
; APPLICANT: Guðmundur O. Hreggvaldsson
; APPLICANT: Olafur H. Friðjónsson
; APPLICANT: Arnthor Aevareason
; APPLICANT: Jakob K. Kristjánsson
; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
; FILE REFERENCE: 2739.1001-001
; CURRENT APPLICATION NUMBER: US/09/585,858
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 60/137,120
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 852
; TYPE: PRT
; ORGANISM: Varicella-zoster virus (strain Dumas)
US-09-585-858-19

Query Match      67.4%; Score 31; DB 2; Length 852;
Best Local Similarity 55.6%; Pred. No. 1.2e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 QDIERTCV 9
Db      51 LSDVEIDCM 59

RESULT 34
US-10-270-878-19
; Sequence 19, Application US/10270878
; Patent No. 6816425
; GENERAL INFORMATION:
; APPLICANT: Sigríður Hjörleifsdóttir
; APPLICANT: Guðmundur O. Hreggvaldsson
; APPLICANT: Olafur H. Friðjónsson
; APPLICANT: Arnthor Aevareason
; APPLICANT: Jakob K. Kristjánsson
; TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic
; FILE REFERENCE: 2739.1001-001
; CURRENT APPLICATION NUMBER: US/10/270,878
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: US/09/585,858
; PRIOR FILING DATE: 2000-12-18
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 852
; TYPE: PRT
; ORGANISM: Varicella-zoster virus (strain Dumas)
US-10-270-878-19

Query Match      67.4%; Score 31; DB 2; Length 852;
Best Local Similarity 55.6%; Pred. No. 1.2e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 QDIERTCV 9
Db      51 LSDVEIDCM 59

RESULT 35
US-09-949-002-289
; Sequence 289, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
```

```
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 289
; LENGTH: 934
; TYPE: PRT
; ORGANISM: Human
US-09-949-002-289

Query Match      67.4%; Score 31; DB 2; Length 934;
Best Local Similarity 50.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      2 QDIERTCV 9
Db      666 EDVEISCL 673

RESULT 36
US-09-949-002-513
; Sequence 513, Application US/09949002
; Patent No. 6900016
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
; FILE REFERENCE: CL000790
; CURRENT APPLICATION NUMBER: US/09/949,002
; CURRENT FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/231,401
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 10823
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 513
; LENGTH: 981
; TYPE: PRT
; ORGANISM: Human
US-09-949-002-513

Query Match      67.4%; Score 31; DB 2; Length 981;
Best Local Similarity 50.0%; Pred. No. 1.3e+03;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      2 QDIERTCV 9
Db      713 EDVEISCL 720

RESULT 37
US-09-501-136-2
; Sequence 2, Application US/09501136
; Patent No. 6727084
; GENERAL INFORMATION:
; APPLICANT: Université de Liège
; TITLE OF INVENTION: Cold-active beta galactosidase, the process for its
; FILE REFERENCE: Beta-gal
; CURRENT APPLICATION NUMBER: US/09/501,136
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1039
; TYPE: PRT
; ORGANISM: Pseudomonas haloplanktis
; FEATURE:
```

NAME/KEY: ACT SITE  
LOCATION: (460)  
NAME/KEY: ACT SITE  
LOCATION: (501)  
NAME/KEY: ACT SITE  
LOCATION: (502)  
NAME/KEY: ACT SITE  
LOCATION: (536)  
NAME/KEY: SIMILAR  
LOCATION: (533)..  
NAME/KEY: SIMILAR  
LOCATION: (455)..  
US-09-501-136-2

Query Match 67.4%; Score 31; DB 2; Length 1039;  
Best Local Similarity 71.4%; Pred. No. 1.4e+03;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 DIBITCV 9  
Db 845 DVBITCV 851

RESULT 38  
US-08-680-326-35  
Sequence 35, Application US/08680326  
Patent No. 5925733  
GENERAL INFORMATION:  
APPLICANT: ROSE, TIMOTHY M.  
APPLICANT: BOSCH, MARINX  
APPLICANT: STRAND, KURT  
APPLICANT: TODARO, GEORGE J.  
TITLE OF INVENTION: DNA POLYMERASE OF GAMMA HERPES VIRUSES  
TITLE OF INVENTION: ASSOCIATED WITH KAPOSI'S SARCOMA AND RETROPERITONEAL  
TITLE OF INVENTION: FIBROMATOSIS  
NUMBER OF SEQUENCES: 152  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORRISON & FOERSTER  
STREET: 755 Page Mill Road  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1018  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/680,326  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Schift, J. Michael  
REGISTRATION NUMBER: 40,253  
REFERENCE/DOCKET NUMBER: 29938-20001.00  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 813-5600  
TELEFAX: (415) 494-0792  
TELEX: 706141  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1194 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-680-326-35

Query Match 67.4%; Score 31; DB 1; Length 1194;  
Best Local Similarity 55.6%; Pred. No. 1.7e+03;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
QY 1 LODBITCV 9

Db 319 LSDVEIDCM 327

RESULT 39  
US-09-424-783-5  
Sequence 5, Application US/09424783  
Patent No. 6780608  
GENERAL INFORMATION:  
APPLICANT: Hakamata, Yasuhiro  
APPLICANT: Nishimura, Seiichiro  
APPLICANT: Barsoumian, Edward Leon  
TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein  
TITLE OF INVENTION: and DNA Molecules Coding Therefor  
FILE REFERENCE: 0652.200000  
CURRENT APPLICATION NUMBER: US/09/424,783  
CURRENT FILING DATE: 1999-12-01  
PRIOR APPLICATION NUMBER: PCT/EP98/02926  
PRIOR FILING DATE: 1998-05-18  
PRIOR APPLICATION NUMBER: DE 197 22 317.6  
PRIOR FILING DATE: 1997-05-28  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 5  
LENGTH: 4968  
TYPE: PRT  
ORGANISM: Oryctolagus cuniculus  
US-09-424-783-5

Query Match 67.4%; Score 31; DB 2; Length 4968;  
Best Local Similarity 75.0%; Pred. No. 7.5e+03;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODBITCV 8  
Db 3830 LODDEFTC 3837

RESULT 40  
US-09-051-529-1  
Sequence 1, Application US/09051529A  
Patent No. 6232089  
GENERAL INFORMATION:  
APPLICANT: BUCKLE, Derek Richard  
APPLICANT: CHRISTIE, Gary  
APPLICANT: MAROLEWSKI, Ariane Elizabeth  
APPLICANT: MAYER, Ruth Judik  
APPLICANT: SMITH, David Glynn  
TITLE OF INVENTION: CD23 Processing Enzyme Preparation  
FILE REFERENCE: P50386-2  
CURRENT APPLICATION NUMBER: US/09/051,529A  
CURRENT FILING DATE: 1998-08-21  
EARLIER APPLICATION NUMBER: 60/013,427  
EARLIER FILING DATE: 1996-03-14  
EARLIER APPLICATION NUMBER: 60/005,316  
EARLIER FILING DATE: 1995-10-10  
NUMBER OF SEQ ID NOS: 1  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human  
US-09-051-529-1

Query Match 65.2%; Score 30; DB 2; Length 10;  
Best Local Similarity 57.1%; Pred. No. 16;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 ODIBITC 8  
Db 4 QDLBISC 10

RESULT 41  
US-09-621-976-6262  
; Sequence 6262, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621.976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 6262  
; LENGTH: 55  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-621-976-6262

Query Match 65.2%; Score 30; DB 2; Length 55;  
Best Local Similarity 62.5%; Pred. No. 97;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDIETCV 9  
: : : : :  
Db 13 ETEITCV 20

RESULT 42  
US-09-621-976-6737  
; Sequence 6737, Application US/09621976  
; Patent No. 6639063  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Jobert, S.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
; FILE REFERENCE: GENSET.054PR2  
; CURRENT APPLICATION NUMBER: US/09/621.976  
; CURRENT FILING DATE: 2000-07-21  
; NUMBER OF SEQ ID NOS: 19335  
; SOFTWARE: Patent.pm  
; SEQ ID NO 6737  
; LENGTH: 72  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 70  
; OTHER INFORMATION: Xaa = \*, Cys, Trp  
; NAME/KEY: UNSURE  
; LOCATION: 71  
; OTHER INFORMATION: Xaa = Ala, Asp, Glu  
; NAME/KEY: UNSURE  
; LOCATION: 55  
; OTHER INFORMATION: Xaa = Ala, Asp, Glu, Gly, His, Ile, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser, Thr  
; NAME/KEY: UNSURE  
; LOCATION: 64  
; OTHER INFORMATION: Xaa = Gly, Arg  
; NAME/KEY: UNSURE  
; LOCATION: 42  
; OTHER INFORMATION: Xaa = Gly, Trp  
US-09-621-976-6737

Query Match 65.2%; Score 30; DB 2; Length 72;  
Best Local Similarity 37.5%; Pred. No. 1.3e+02;  
Matches 3; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2 QDIETCV 9  
: : : : :  
Db 17 QDVIVCI 24

RESULT 43  
US-09-489-039A-8230  
; Sequence 8230, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489.039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 8230  
; LENGTH: 126  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-8230

Query Match 65.2%; Score 30; DB 2; Length 126;  
Best Local Similarity 62.5%; Pred. No. 2.3e+02;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIETC 8  
: : : : :  
Db 77 LSDIEVDC 84

RESULT 44  
US-09-949-016-6831  
; Sequence 6831, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949.016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for windows Version 4.0  
; SEQ ID NO 6831  
; LENGTH: 281  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-6831

Query Match 65.2%; Score 30; DB 2; Length 281;  
Best Local Similarity 62.5%; Pred. No. 5.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
: : : : :  
Db 230 LRDIETC 237

RESULT 45  
US-09-949-016-7870  
; Sequence 7870, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307

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;
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-6949
Query Match      65.2%; Score 30; DB 2; Length 324;
Best Local Similarity 62.5%; Pred. No. 6.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 LDIEITC 8
Db      273 LRDIELIC 280

RESULT 46
US-09-328-352-7018
; Sequence 7018, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Bretton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328.352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7018
; LENGTH: 363
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
; US-09-328-352-7018
Query Match      65.2%; Score 30; DB 2; Length 363;
Best Local Similarity 66.7%; Pred. No. 7.2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 LDIEITC 9
Db      192 LQDKQIECV 200

RESULT 47
US-09-949-016-6949
; Sequence 6949, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949.016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241.755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237.768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231.498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6949
; LENGTH: 455
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; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-6949
Query Match      65.2%; Score 30; DB 2; Length 455;
Best Local Similarity 57.1%; Pred. No. 9.2e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      2 QDIEITC 8
Db      261 EDIQLTIC 267

RESULT 48
US-09-949-016-11026
; Sequence 11026, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949.016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241.755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237.768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231.498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11026
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-11026
Query Match      65.2%; Score 30; DB 2; Length 455;
Best Local Similarity 57.1%; Pred. No. 9.2e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy      2 QDIEITC 8
Db      261 EDIQLTIC 267
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RESULT 49
US-08-749-903-4
; Sequence 4, Application US/08749903
; Patent No. 5759812
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; TITLE OF INVENTION: NOVEL HUMAN SELENIUM-BINDING PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/749.903
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
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FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0163 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 472 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: Genbank  
CLONE: 227630  
US-08-749-903-4

Query Match 65.2%; Score 30; DB 1; Length 472;  
Best Local Similarity 62.5%; Pred. No. 9.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
|:|:|  
Db 364 LEDDELTC 371

RESULT 50  
US-08-749-903-5  
Sequence 5, Application US/08749903  
Patent No. 5759812  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
TITLE OF INVENTION: NOVEL HUMAN SILENTIN-BINDING PROTEIN  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/749,903  
FILING DATE: Filed Herewith  
PRIOR APPLICATION NUMBER:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0163 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 472 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: Genbank  
CLONE: 298710

US-08-749-903-5

Query Match 65.2%; Score 30; DB 1; Length 472;  
Best Local Similarity 62.5%; Pred. No. 9.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
|:|:|  
Db 364 LEDDELTC 371

Search completed: May 5, 2006, 02:25:15  
Job time : 26.8 secs



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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds  
(without alignments)  
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Title: US-08-170-344-23

Perfect score: 46

Sequence: 1 LQDIETCV 9

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Total number of hits satisfying chosen parameters: 1867569

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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#### SUMMARIES

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4	46	100.0	119	US-10-751-845-159	Sequence 159, App
5	46	100.0	158	US-10-800-023-27	Sequence 27, App1
6	46	100.0	158	US-11-021-949-28	Sequence 28, App1
7	46	100.0	172	US-10-472-724-6	Sequence 6, App1
8	46	100.0	236	US-10-751-845-157	Sequence 157, App
9	46	100.0	237	US-10-751-845-158	Sequence 158, App
10	46	100.0	261	US-10-751-845-160	Sequence 160, App
11	46	100.0	278	US-10-000-903-21	Sequence 21, App1
12	46	100.0	278	US-10-899-771-21	Sequence 21, App1
13	46	100.0	383	US-10-000-903-23	Sequence 23, App1
14	46	100.0	383	US-10-899-771-23	Sequence 23, App1
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16	40	87.0	9	US-10-389-647-605	Sequence 605, App
17	40	87.0	481	US-11-097-143-17043	Sequence 17043, A
18	37	80.4	873	US-08-911-824-61	Sequence 61, App1
19	36	78.3	162	US-10-767-701-58324	Sequence 58324, A
20	36	78.3	274	US-10-369-493-1869	Sequence 1869, App
21	36	78.3	282	US-10-243-552-559	Sequence 559, App
22	36	78.3	454	US-10-437-963-184385	Sequence 184385, A
23	36	78.3	462	US-10-425-115-227314	Sequence 227314, A
24	35	76.1	158	US-11-021-949-29	Sequence 29, App1
25	35	76.1	158	US-11-021-949-30	Sequence 30, App1
26	35	76.1	1070	US-10-032-585-7389	Sequence 7389, App
27	35	76.1	2478	US-10-437-963-131742	Sequence 131742, A

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29	34	73.9	67	4	US-10-767-701-31617	Sequence 31617, A
30	34	73.9	121	5	US-10-732-180-228	Sequence 228, App
31	34	73.9	140	4	US-10-316-194-9	Sequence 9, App1
32	34	73.9	140	4	US-10-316-194-37	Sequence 37, App1
33	34	73.9	140	5	US-10-732-180-9	Sequence 9, App1
34	34	73.9	140	5	US-10-732-180-37	Sequence 37, App1
35	34	73.9	179	4	US-10-425-115-246840	Sequence 246840, A
36	34	73.9	344	4	US-10-282-122A-47485	Sequence 47485, A
37	34	73.9	359	4	US-10-328-675A-74	Sequence 74, App1
38	34	73.9	388	5	US-10-450-763-42351	Sequence 42351, A
39	34	73.9	388	5	US-10-450-763-42322	Sequence 42322, A
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42	34	73.9	400	3	US-09-804-006-6	Sequence 6, App1
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44	34	73.9	509	4	US-10-157-031-44	Sequence 44, App1
45	34	73.9	509	4	US-10-170-385-87	Sequence 87, App1
46	34	73.9	509	4	US-10-117-937-77	Sequence 77, App1
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51	34	73.9	509	4	US-10-643-795A-92	Sequence 92, App1
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54	34	73.9	509	5	US-10-948-518-92	Sequence 92, App1
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56	34	73.9	509	5	US-10-871-708-8	Sequence 8, App1
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58	34	73.9	509	6	US-11-067-064-77	Sequence 77, App1
59	34	73.9	509	6	US-11-050-926-254	Sequence 254, App
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63	34	73.9	647	4	US-10-437-963-146272	Sequence 146272, A
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65	34	73.9	885	4	US-10-437-963-160466	Sequence 160466, A
66	34	73.9	914	4	US-10-369-493-3723	Sequence 3723, App
67	34	73.9	915	4	US-10-128-714-3197	Sequence 3197, App
68	34	73.9	984	4	US-10-128-714-8197	Sequence 8197, App
69	34	73.9	3541	4	US-10-296-734-1454	Sequence 1454, App
70	33	71.7	45	3	US-09-925-301-1221	Sequence 1221, App
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72	33	71.7	68	4	US-10-106-698-5449	Sequence 5449, App
73	33	71.7	107	4	US-10-108-260A-2958	Sequence 2958, App
74	33	71.7	183	4	US-10-425-115-248402	Sequence 248402, A
75	33	71.7	217	4	US-10-238-075-1244	Sequence 1244, App
76	33	71.7	366	3	US-09-349-015-35	Sequence 35, App1
77	33	71.7	366	4	US-10-219-664-26	Sequence 26, App1
78	33	71.7	366	4	US-10-291-265-410	Sequence 410, App
79	33	71.7	366	4	US-10-291-265-882	Sequence 882, App
80	33	71.7	366	4	US-10-367-978-76	Sequence 76, App1
81	33	71.7	390	4	US-10-238-075-887	Sequence 887, App
82	33	71.7	393	5	US-10-181-069-6	Sequence 6, App1
83	33	71.7	444	4	US-10-424-599-23325	Sequence 23325, A
84	33	71.7	479	4	US-10-425-114-55035	Sequence 55035, A
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86	33	71.7	518	4	US-10-425-114-52331	Sequence 52331, A
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88	33	71.7	520	4	US-10-385-760-2	Sequence 2, App1
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92	33	71.7	764	4	US-10-425-114-54331	Sequence 54331, A
93	33	71.7	860	4	US-10-389-556-1868	Sequence 1868, App
94	33	71.7	1270	4	US-10-437-963-194468	Sequence 194468, A
95	33	71.7	1448	4	US-10-437-963-138537	Sequence 138537, A
96	32	69.6	48	4	US-10-425-115-116513	Sequence 116513, A
97	32	69.6	60	4	US-10-425-114-68856	Sequence 68856, A
98	32	69.6	79	4	US-10-425-115-371403	Sequence 271403, A
99	32	69.6	83	3	US-09-764-860-393	Sequence 393, App
100	32	69.6	83	4	US-10-074-095-393	Sequence 393, App

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103	32	69.6	89	4	US-10-276-774-2423	Sequence 2423, Ap	176	31	67.4	787	6	US-11-097-143-21102	Sequence 21102, A
104	32	69.6	95	3	US-09-764-891-3667	Sequence 3667, Ap	177	31	67.4	816	4	US-10-437-963-170963	Sequence 170963, A
105	32	69.6	145	4	US-10-424-599-216054	Sequence 216054, A	178	31	67.4	852	4	US-10-270-875-19	Sequence 19, App1
106	32	69.6	203	4	US-10-424-599-188156	Sequence 188156, A	179	31	67.4	852	4	US-10-270-878-19	Sequence 19, App1
107	32	69.6	219	4	US-10-369-493-9207	Sequence 9207, Ap	180	31	67.4	852	4	US-10-270-786-19	Sequence 19, App1
108	32	69.6	266	4	US-10-369-493-17497	Sequence 17497, A	181	31	67.4	852	4	US-10-270-710-19	Sequence 19, App1
109	32	69.6	266	4	US-10-425-115-270503	Sequence 270503, A	182	31	67.4	852	4	US-10-270-859-19	Sequence 19, App1
110	32	69.6	267	4	US-10-369-493-2093	Sequence 2093, Ap	183	31	67.4	852	4	US-10-270-846-19	Sequence 19, App1
111	32	69.6	269	4	US-10-437-963-169997	Sequence 169997, A	184	31	67.4	903	5	US-10-501-282-2864	Sequence 2864, Ap
112	32	69.6	273	4	US-10-425-114-48009	Sequence 48009, A	185	31	67.4	922	4	US-10-032-585-7219	Sequence 7219, Ap
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114	32	69.6	278	4	US-10-425-114-63627	Sequence 63627, A	187	31	67.4	934	5	US-10-989-891-150	Sequence 150, App
115	32	69.6	291	6	US-11-097-143-6108	Sequence 6108, Ap	188	31	67.4	953	4	US-10-437-963-126195	Sequence 126195, A
116	32	69.6	291	6	US-11-097-143-25155	Sequence 25155, A	189	31	67.4	1444	4	US-10-437-963-174750	Sequence 174750, A
117	32	69.6	293	5	US-10-739-930-6245	Sequence 6245, Ap	190	31	67.4	1318	5	US-10-915-029-10	Sequence 10, App1
118	32	69.6	308	4	US-10-128-714-8517	Sequence 8517, Ap	191	31	67.4	1319	4	US-10-041-856-8	Sequence 8, App1
119	32	69.6	310	4	US-10-128-714-3517	Sequence 3517, Ap	192	31	67.4	1319	6	US-11-073-203-8	Sequence 8, App1
120	32	69.6	314	4	US-10-425-115-341980	Sequence 341980, A	193	31	67.4	2055	4	US-10-276-774-1795	Sequence 1795, Ap
121	32	69.6	324	4	US-10-425-114-49062	Sequence 49062, A	194	31	67.4	4767	4	US-10-276-774-1902	Sequence 1902, Ap
122	32	69.6	352	4	US-10-425-114-65377	Sequence 65377, A	195	31	67.4	4967	4	US-10-668-767-60	Sequence 60, App1
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124	32	69.6	363	4	US-10-369-493-13083	Sequence 13083, A	197	31	67.4	4968	4	US-10-668-767-61	Sequence 61, App1
125	32	69.6	365	4	US-10-424-599-216507	Sequence 216507, A	198	31	65.2	36	4	US-10-437-963-105552	Sequence 105552, A
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129	32	69.6	1954	4	US-10-147-399A-4	Sequence 4, App1	202	30	65.2	60	4	US-10-425-115-251506	Sequence 251506, A
130	32	69.6	2905	4	US-10-437-963-154118	Sequence 154118, A	203	30	65.2	60	4	US-10-106-698-5194	Sequence 5194, Ap
131	31	67.4	33	4	US-10-425-115-255527	Sequence 255527, A	204	30	65.2	63	3	US-09-820-8438-6	Sequence 6, App1
132	31	67.4	37	4	US-10-424-599-174190	Sequence 174190, A	205	30	65.2	63	4	US-10-425-115-265909	Sequence 265909, A
133	31	67.4	39	3	US-09-864-761-37169	Sequence 37169, A	206	30	65.2	79	4	US-10-425-115-319718	Sequence 319718, A
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142	31	67.4	160	6	US-11-021-849-32	Sequence 32, App1	215	30	65.2	177	4	US-10-767-701-62589	Sequence 62589, A
143	31	67.4	181	4	US-10-335-877-6676	Sequence 6676, Ap	216	30	65.2	178	4	US-10-424-599-252942	Sequence 252942, A
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147	31	67.4	217	4	US-10-282-122A-55135	Sequence 55135, A	220	30	65.2	200	4	US-10-369-493-21855	Sequence 21855, A
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158	31	67.4	374	4	US-10-464-631-2	Sequence 4680, Ap	231	30	65.2	281	4	US-10-128-714-8124	Sequence 8124, Ap
159	31	67.4	374	5	US-10-732-923-4880	Sequence 4880, Ap	232	30	65.2	281	4	US-10-839-882-2	Sequence 2, App1
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167	31	67.4	433	5	US-10-866-527-134	Sequence 134, App	240	30	65.2	358	4	US-10-742-682-16	Sequence 16, App1
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173	31	67.4	635	4	US-10-437-963-192708	Sequence 192708, A	246	30	65.2				

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249	30	65.2	385	4	US-10-168-274-6	Sequence 6, Appl1	322	29	63.0	125	4	US-10-425-115-189347	Sequence 189347,
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259	30	65.2	472	3	US-10-787-421-2	Sequence 2, Appl1	332	29	63.0	143	3	US-09-882-227-54	Sequence 54, Appl
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285	30	65.2	1355	4	US-10-080-334-151	Sequence 159, App	358	29	63.0	220	3	US-10-764-870-343	Sequence 684, App
286	30	65.2	1581	4	US-10-080-334-151	Sequence 15754, A	359	29	63.0	220	3	US-10-125-540-343	Sequence 343, App
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294	30	65.2	2051	4	US-10-741-191-18	Sequence 18, Appl	367	29	63.0	222	4	US-10-041-018-303	Sequence 355, App
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297	30	65.2	2139	5	US-10-023-219-4	Sequence 4, Appl1	370	29	63.0	224	4	US-10-828-559-7	Sequence 727, App
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395	29	63.0	265	5	US-10-828-559-4	Sequence 4, App1	468	29	63.0	443	3	US-09-866-5728-50	Sequence 50, App1
396	29	63.0	265	5	US-10-828-559-40	Sequence 40, App1	469	29	63.0	443	3	US-09-866-570A-50	Sequence 50, App1
397	29	63.0	266	5	US-10-828-559-13	Sequence 13, App1	470	29	63.0	443	4	US-10-166-984-50	Sequence 50, App1
398	29	63.0	266	5	US-10-828-559-32	Sequence 32, App1	471	29	63.0	443	4	US-10-166-984-50	Sequence 50, App1
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412	29	63.0	297	4	US-10-145-586-88	Sequence 88, App1	485	29	63.0	500	4	US-10-156-761-13083	Sequence 13083, A
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414	29	63.0	303	4	US-10-108-260A-3965	Sequence 3965, Ap	487	29	63.0	516	4	US-10-408-765A-906	Sequence 906, App
415	29	63.0	314	3	US-09-922-217-1110	Sequence 1110, Ap	488	29	63.0	539	4	US-10-156-761-9228	Sequence 9228, App
416	29	63.0	314	3	US-09-919-497-82	Sequence 82, App1	489	29	63.0	557	4	US-10-264-237-1692	Sequence 1692, Ap
417	29	63.0	314	4	US-10-025-380-1110	Sequence 1110, Ap	490	29	63.0	558	4	US-10-276-774-1728	Sequence 1728, Ap
418	29	63.0	314	4	US-10-205-823-403	Sequence 403, App	491	29	63.0	565	4	US-10-306-905-7	Sequence 7, App1
419	29	63.0	314	4	US-10-404-724-60	Sequence 60, App1	492	29	63.0	565	4	US-10-424-599-264504	Sequence 264504, App
420	29	63.0	314	4	US-10-341-434-73	Sequence 73, App1	493	29	63.0	578	4	US-10-411-910A-34	Sequence 34, App1
421	29	63.0	314	4	US-10-236-031B-12	Sequence 12, App1	494	29	63.0	598	4	US-10-425-115-269228	Sequence 269228, A
422	29	63.0	314	4	US-10-408-765A-38	Sequence 38, App1	495	29	63.0	621	4	US-10-424-599-251860	Sequence 251860, A
423	29	63.0	314	4	US-10-672-878-6	Sequence 6, App1	496	29	63.0	631	4	US-10-306-905-1	Sequence 1, App1
424	29	63.0	314	4	US-10-672-878-7	Sequence 7, App1	497	29	63.0	633	4	US-10-437-963-198258	Sequence 198258, A
425	29	63.0	314	5	US-10-643-795A-115	Sequence 115, App	498	29	63.0	635	4	US-10-369-493-1688	Sequence 1688, Ap
426	29	63.0	314	5	US-10-643-795A-133	Sequence 133, App	499	29	63.0	638	4	US-10-451-764-17	Sequence 17, App1
427	29	63.0	314	5	US-10-816-276-56	Sequence 56, App1	500	29	63.0	639	6	US-11-097-143-19269	Sequence 19269, A
428	29	63.0	314	5	US-10-948-518-115	Sequence 115, App	501	29	63.0	647	4	US-10-275-595A-8	Sequence 8, App1
429	29	63.0	314	5	US-10-948-518-115	Sequence 115, App	502	29	63.0	653	4	US-10-369-493-17008	Sequence 17008, A
430	29	63.0	314	5	US-10-948-518-133	Sequence 133, App	503	29	63.0	653	5	US-10-332-923-12323	Sequence 12323, A
431	29	63.0	314	5	US-10-828-559-6	Sequence 6, App1	504	29	63.0	669	4	US-10-270-333-183	Sequence 183, App
432	29	63.0	314	5	US-10-828-559-41	Sequence 41, App1	505	29	63.0	669	6	US-11-097-143-39366	Sequence 39366, A
433	29	63.0	315	4	US-11-051-454-403	Sequence 403, App	506	29	63.0	675	4	US-10-451-764-14	Sequence 14, App1
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436	29	63.0	322	4	US-10-828-559-34	Sequence 34, App1	509	29	63.0	701	4	US-09-853-053-2	Sequence 2, App1
437	29	63.0	322	4	US-10-000-273-6	Sequence 6, App1	510	29	63.0	701	4	US-10-445-488-2	Sequence 2, App1
438	29	63.0	323	4	US-10-385-770-6	Sequence 6, App1	511	29	63.0	702	6	US-10-424-599-178917	Sequence 178917, A
439	29	63.0	324	4	US-10-032-585-7749	Sequence 7749, Ap	512	29	63.0	722	4	US-11-097-143-13272	Sequence 13272, A
440	29	63.0	324	4	US-10-289-762-782	Sequence 782, App	513	29	63.0	730	4	US-10-369-493-5651	Sequence 5651, A
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447	29	63.0	336	4	US-10-128-714-8083	Sequence 8083, Ap	520	29	63.0	792	5	US-10-741-600-1466	Sequence 1466, Ap
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451	29	63.0	355	5	US-10-633-680-82	Sequence 82, App1	524	29	63.0	826	3	US-10-054-399A-29	Sequence 29, App1
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459	29	63.0	377	5	US-10-691-105-7	Sequence 7, App1	532	29	63.0	887	4	US-10-732-923-1796	Sequence 1796, Ap
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462	29	63.0	385	4	US-10-369-493-19205	Sequence 19205, A	535	29	63.0	887	4	US-10-041-018-217	Sequence 217, App
463	29	63.0	385	4	US-10-437-963-18968	Sequence 18968, A	536	29	63.0	887	4	US-10-041-018-225	Sequence 225, App
464	29	63.0	387	4	US-10-437-963-153012	Sequence 153012, A	537	29	63.0	887	4	US-10-041-018-263	Sequence 263, App
465	29	63.0	394	4	US-10-264-049-2328	Sequence 2328, Ap	538	29	63.0	887	4	US-10-041-018-266	Sequence 266, App
			400	3	US-09-738-626-4338	Sequence 4338, Ap							Sequence 289, App

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541	29	63.0	887	4	US-10-041-018-356	Sequence 356, App	614	28	60.9	94	5	US-10-942-659-5	Sequence 5, Appl1
542	29	63.0	887	4	US-10-041-018-359	Sequence 359, App	615	28	60.9	94	6	US-11-021-859-302	Sequence 302, App
543	29	63.0	901	4	US-10-425-115-211423	Sequence 211423, A	616	28	60.9	94	6	US-11-021-9288-199	Sequence 199, App
544	29	63.0	904	5	US-10-450-763-0306	Sequence 40306, A	617	28	60.9	95	3	US-09-880-457-6	Sequence 6, Appl1
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546	29	63.0	937	4	US-10-156-761-8523	Sequence 8523, Ap	619	28	60.9	95	4	US-10-230-163-82	Sequence 82, Appl1
547	29	63.0	949	4	US-10-017-161-1102	Sequence 1102, Ap	620	28	60.9	95	4	US-10-218-631-82	Sequence 82, Appl1
548	29	63.0	953	4	US-10-267-502-399	Sequence 399, App	621	28	60.9	95	4	US-10-230-114-82	Sequence 82, Appl1
549	29	63.0	953	4	US-10-267-502-400	Sequence 400, App	622	28	60.9	95	4	US-10-232-224-82	Sequence 82, Appl1
550	29	63.0	953	4	US-10-408-765A-1671	Sequence 1671, Ap	623	28	60.9	95	4	US-10-216-159A-82	Sequence 82, Appl1
551	29	63.0	953	4	US-10-370-715B-258	Sequence 258, App	624	28	60.9	95	4	US-10-218-873-82	Sequence 82, Appl1
552	29	63.0	983	6	US-11-097-143-37182	Sequence 37182, A	625	28	60.9	95	4	US-10-227-873-82	Sequence 82, Appl1
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555	29	63.0	988	5	US-10-647-268-10	Sequence 10, Appl	628	28	60.9	95	4	US-10-230-434-82	Sequence 82, Appl1
556	29	63.0	988	3	US-09-852-909-2	Sequence 2, Appl1	629	28	60.9	95	4	US-10-219-075-82	Sequence 82, Appl1
557	29	63.0	994	3	US-10-435-341-2	Sequence 2, Appl1	630	28	60.9	95	4	US-10-219-075-82	Sequence 82, Appl1
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562	29	63.0	1121	2	US-08-915-048A-2	Sequence 2, Appl1	635	28	60.9	95	4	US-10-232-233-82	Sequence 82, Appl1
563	29	63.0	1131	5	US-10-450-763-42014	Sequence 42014, A	636	28	60.9	95	4	US-10-219-468-82	Sequence 82, Appl1
564	29	63.0	1168	4	US-10-437-963-183504	Sequence 183504, A	637	28	60.9	95	4	US-10-219-478-82	Sequence 82, Appl1
565	29	63.0	1169	4	US-10-282-122A-47218	Sequence 47218, A	638	28	60.9	95	4	US-10-218-956-82	Sequence 82, Appl1
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567	29	63.0	1232	5	US-10-505-486-97	Sequence 97, Appl	641	28	60.9	95	4	US-10-219-478-82	Sequence 82, Appl1
568	29	63.0	1321	4	US-10-367-978-11	Sequence 11, Appl	642	28	60.9	95	4	US-10-219-478-82	Sequence 82, Appl1
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570	29	63.0	1366	6	US-10-648-512-3	Sequence 3, Appl1	644	28	60.9	95	4	US-10-219-072-82	Sequence 82, Appl1
571	29	63.0	1366	6	US-11-061-626-3	Sequence 3, Appl1	645	28	60.9	95	4	US-10-219-474-82	Sequence 82, Appl1
572	29	63.0	1401	4	US-10-374-077-206	Sequence 206, App	646	28	60.9	95	4	US-10-219-524-82	Sequence 82, Appl1
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575	29	63.0	1426	4	US-10-648-512-8	Sequence 8, Appl1	649	28	60.9	95	4	US-10-227-880-82	Sequence 82, Appl1
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578	29	63.0	1426	6	US-11-061-626-8	Sequence 8, Appl1	652	28	60.9	95	4	US-10-232-223-82	Sequence 82, Appl1
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580	29	63.0	1543	5	US-10-732-923-1742	Sequence 1742, Ap	654	28	60.9	95	4	US-10-232-225-82	Sequence 82, Appl1
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583	29	63.0	1620	4	US-10-437-963-110621	Sequence 110621, A	657	28	60.9	95	4	US-10-232-229-82	Sequence 82, Appl1
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591	28	60.9	55	4	US-10-424-599-26878	Sequence 26878, A	665	28	60.9	95	4	US-10-219-065-82	Sequence 82, Appl1
592	28	60.9	55	4	US-10-767-701-63031	Sequence 63031, A	666	28	60.9	95	4	US-10-219-071-82	Sequence 82, Appl1
593	28	60.9	59	3	US-09-894-159-34	Sequence 34, Appl	667	28	60.9	95	4	US-10-219-074-82	Sequence 82, Appl1
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597	28	60.9	77	3	US-09-894-159-36549	Sequence 36, Appl	671	28	60.9	95	4	US-10-219-471-82	Sequence 82, Appl1
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603	28	60.9	86	4	US-10-424-599-246654	Sequence 246654, A	677	28	60.9	95	4	US-10-227-876-82	Sequence 82, Appl1
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610	28	60.9	94	3	US-09-894-159-96	Sequence 96, Appl	684	28	60.9	95	4	US-10-230-306-82	Sequence 82, Appl1
611	28	60.9	94	4	US-10-630-590-184	Sequence 184, App							

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698	28	60.9	95	4	US-10-218-765-82	Sequence 82, Appl	771	28	60.9	196	5	US-10-617-320-5167	Sequence 5167, Ap
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997 28 60.9 839 4 US-10-282-122A-62736 Sequence 62736, A
998 28 60.9 839 4 US-10-282-122A-64625 Sequence 64625, A
999 28 60.9 841 3 US-09-894-159-2 Sequence 2, Appl
1000 28 60.9 841 5 US-10-391-939A-12 Sequence 12, Appl
```

## ALIGNMENTS

```
RESULT 1
US-10-751-845-131
; Sequence 131, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-131

Query Match 100.0%; Score 46; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 1 LODIETCV 9

RESULT 2
US-10-751-845-130
; Sequence 130, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; CURRENT FILING DATE: 2004-01-05
```

```
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-130
```

```
Query Match 100.0%; Score 46; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 2 LODIETCV 10
```

```
RESULT 3
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

Query Match 100.0%; Score 46; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 17 LODIETCV 25

RESULT 4
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
```



```
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
```

```
Query Match          100.0%; Score 46; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.82; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
```

```
Qy 1 LODIETCV 9
Db 17 LODIETCV 25
```

```
RESULT 5
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258686A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response therefrom
; FILE REFERENCE: 600-1-081CONC1P1
; CURRENT APPLICATION NUMBER: US/10/800,023
; PRIOR FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus B6 protein
US-10-800-023-27
```

```
Query Match          100.0%; Score 46; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.1; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
```

```
Qy 1 LODIETCV 9
Db 25 LODIETCV 33
```

```
RESULT 6
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
```

```
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```
Query Match          100.0%; Score 46; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.1; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
```

```
Qy 1 LODIETCV 9
Db 25 LODIETCV 33
```

```
RESULT 7
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Zur Hausen, Harald
; APPLICANT: Cid-Arregui, Angel
; TITLE OF INVENTION: Modified HPV B6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6
```

```
Query Match          100.0%; Score 46; DB 4; Length 172;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;
```

```
Qy 1 LODIETCV 9
Db 31 LODIETCV 39
```

```
RESULT 8
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
```

```
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

```
Query Match          100.0%; Score 46; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 134 LODIETCV 142
```

```
RESULT 9
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

```
Query Match          100.0%; Score 46; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 135 LODIETCV 143
```

```
RESULT 10
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
```

```
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

```
Query Match          100.0%; Score 46; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 159 LODIETCV 167
```

```
RESULT 11
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US2002018221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Caberon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21
```

```
Query Match          100.0%; Score 46; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETCV 9
Db 136 LODIETCV 144
```

```
RESULT 12
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
```

```
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```
Query Match      100.0%; Score 46; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETCV 9
        |||||
Db      136 LODIETCV 144
```

```
RESULT 13
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US2002018222A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000.903
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23
```

```
Query Match      100.0%; Score 46; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETCV 9
        |||||
Db      136 LODIETCV 144
```

```
RESULT 14
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
```

```
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23
```

```
Query Match      100.0%; Score 46; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETCV 9
        |||||
Db      136 LODIETCV 144
```

```
RESULT 15
US-10-751-845-129
; Sequence 129, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751.845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-129
```

```
Query Match      91.3%; Score 42; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 LODIETC 8
        |||||
Db      2 LODIETC 9
```

```
RESULT 16
US-10-389-647-605
; Sequence 605, Application US/10389647
; Publication No. US20040033549A1
; GENERAL INFORMATION:
; APPLICANT: GREENBERG, E. Peter
; APPLICANT: SCHUSTER, Martin
; APPLICANT: LOSTROH, Candl
; TITLE OF INVENTION: QUORUM SENSING SIGNALING IN BACTERIA
; FILE REFERENCE: UI2-038CP
; CURRENT APPLICATION NUMBER: US/10/389,647
; CURRENT FILING DATE: 2003-03-14
```

```
; PRIOR APPLICATION NUMBER: 09/653730
; PRIOR FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: 60/153022
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 710
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 605
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-389-647-605

Query Match      87.0%; Score 40; DB 4; Length 99;
Best Local Similarity 77.8%; Pred. No. 9.1;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LQDIETVC 9
Db      4 LNDIEVTCV 12

RESULT 17
US-11-097-143-17043
; Sequence 17043, Application US/11097143
; Publication No. US205020858A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17043
; LENGTH: 481
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-17043

Query Match      87.0%; Score 40; DB 6; Length 481;
Best Local Similarity 87.5%; Pred. No. 48;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
; APPLICANT: Hackett, John R., Jr.
; APPLICANT: Yamaguchi, Julie
; APPLICANT: Golden, Alan M.
; APPLICANT: Brennan, Catherine A.
; APPLICANT: Hickman, Robert K.
; APPLICANT: Devare, Sushil G.
; TITLE OF INVENTION: NOVEL ANTIGEN CONSTRUCTS USEFUL IN THE
; TITLE OF INVENTION: DETECTION AND DIFFERENTIATION OF ANTIBODIES TO HIV
; FILE REFERENCE: 6165-US-01
; CURRENT APPLICATION NUMBER: US/08/911,824
; CURRENT FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 61
; LENGTH: 873
; TYPE: PRT
; ORGANISM: Human Immunodeficiency Virus
; FEATURE:
; OTHER INFORMATION: HIV-1 Group O isolate HAM112
US-08-911-824-61

Query Match      80.4%; Score 37; DB 2; Length 873;
Best Local Similarity 100.0%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 DIERTCV 9
Db      293 DIERTCV 299

RESULT 19
US-10-767-701-58324
; Sequence 58324, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 58324
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 30978582.pdp
US-10-767-701-58324

Query Match      78.3%; Score 36; DB 4; Length 162;
Best Local Similarity 62.5%; Pred. No. 86;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 LQDIETVC 8
Db      102 LQDLVTCV 109

RESULT 20
US-10-369-493-1669
; Sequence 1669, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
```

```
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 1669
LENGTH: 274
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1669
```

```
Query Match 78.3%; Score 36; DB 4; Length 274;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LODIETVC 9
DB 108 LODIETCI 116
```

```
RESULT 21
US-10-243-552-539
Sequence 539, Application US/10243552
Publication No. US20030224379A1
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Wang, Zhiwei
APPLICANT: Weng, Gezhai
APPLICANT: Ma, Yundqing
TITLE OF INVENTION: Novel Nucleic Acids and
FILE REFERENCE: 807A
CURRENT APPLICATION NUMBER: US/10/243,552
CURRENT FILING DATE: 2002-09-12
PRIOR APPLICATION NUMBER: US 60/322,511
PRIOR FILING DATE: 2001-09-13
PRIOR APPLICATION NUMBER: PCT/US00/35017
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: US 09/488,725
PRIOR FILING DATE: 2000-01-21
PRIOR APPLICATION NUMBER: US 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: PCT/US01/02623
PRIOR FILING DATE: 2001-01-25
PRIOR APPLICATION NUMBER: US 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: PCT/US01/03800
PRIOR FILING DATE: 2001-02-05
PRIOR APPLICATION NUMBER: US 09/496,914
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: US 09/560,875
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: PCT/US01/04927
PRIOR FILING DATE: 2001-02-26
Remaining Prior Application data removed - See file Wrapper or PALM.
NUMBER OF SEQ ID NOS: 998
SOFTWARE: pc_fl_genes Version 5.0
SEQ ID NO 539
LENGTH: 282
TYPE: PRT
ORGANISM: Homo sapiens
US-10-243-552-539
```

```
Query Match 78.3%; Score 36; DB 4; Length 282;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETVC 9
DB 117 LODIDLTC 125
```

```
RESULT 22
US-10-437-963-184385
Sequence 184385, Application US/10437963
Publication No. US2004012343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 184385
LENGTH: 454
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_81382C.1.pep
US-10-437-963-184385
```

```
Query Match 78.3%; Score 36; DB 4; Length 454;
Best Local Similarity 62.5%; Pred. No. 2.5e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETVC 8
DB 94 LODIDLTC 101
```

```
RESULT 23
US-10-425-115-227314
Sequence 227314, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 227314
LENGTH: 462
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_138903C.1.pep
US-10-425-115-227314
```

```
Query Match 78.3%; Score 36; DB 4; Length 462;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LODIETVC 8
DB 102 LODIDLTC 109
```

```
RESULT 24
US-11-021-949-29
Sequence 29, Application US/11021949
Publication No. US20050142541A1
```

```
/ GENERAL INFORMATION:
/ APPLICANT: LU, PETER
/ APPLICANT: GARMAN, JONATHAN DAVID
/ APPLICANT: BELMARES, MICHAEL P.
/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
/ APPLICANT: SCHWEIZER, JOHANNES
/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
/ TITLE OF INVENTION: AND METHODS OF THEIR USE
/ FILE REFERENCE: VITA-012
/ CURRENT APPLICATION NUMBER: US/11/021,949
/ CURRENT FILING DATE: 2004-12-23
/ PRIOR APPLICATION NUMBER: 60/532,373
/ PRIOR FILING DATE: 2003-12-23
/ NUMBER OF SEQ ID NOS: 361
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 29
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: human papilloma virus (HPV)
US-11-021-949-29

Query Match          76.1%; Score 35; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIETCV 9
Db 25 LODVSIACV 33

RESULT 25
US-11-021-949-30
/ Sequence 30, Application US/11021949
/ Publication No. US20050142541A1
/ GENERAL INFORMATION:
/ APPLICANT: LU, PETER
/ APPLICANT: GARMAN, JONATHAN DAVID
/ APPLICANT: BELMARES, MICHAEL P.
/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
/ APPLICANT: SCHWEIZER, JOHANNES
/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
/ TITLE OF INVENTION: AND METHODS OF THEIR USE
/ FILE REFERENCE: VITA-012
/ CURRENT APPLICATION NUMBER: US/11/021,949
/ CURRENT FILING DATE: 2004-12-23
/ PRIOR APPLICATION NUMBER: 60/532,373
/ PRIOR FILING DATE: 2003-12-23
/ NUMBER OF SEQ ID NOS: 361
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 30
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

Query Match          76.1%; Score 35; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
/ TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
/ FILE REFERENCE: 10182-005-999
/ CURRENT APPLICATION NUMBER: US/10/032,585
/ CURRENT FILING DATE: 2001-12-20
/ NUMBER OF SEQ ID NOS: 8000
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 7389
/ LENGTH: 1070
/ TYPE: PRT
/ ORGANISM: Candida albicans
US-10-032-585-7389

Query Match          76.1%; Score 35; DB 4; Length 1070;
Best Local Similarity 85.7%; Pred. No. 9.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETIC 8
Db 593 EDIETIC 599

RESULT 27
US-10-437-963-131742
/ Sequence 131742, Application US/10437963
/ Publication No. US20040123343A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Wu, Wei
/ APPLICANT: Boukharov, Andrey A.
/ APPLICANT: Barbazuk, Brad
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53221)B
/ CURRENT APPLICATION NUMBER: US/10/437,963
/ CURRENT FILING DATE: 2003-05-14
/ NUMBER OF SEQ ID NOS: 204966
/ SEQ ID NO 131742
/ LENGTH: 2478
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT4530_3377C.1.pep
US-10-437-963-131742

Query Match          76.1%; Score 35; DB 4; Length 2478;
Best Local Similarity 87.5%; Pred. No. 2.3e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETIC 8
Db 2230 LODIETIC 2237

RESULT 28
US-10-296-734-1354
/ Sequence 1354, Application US/10296734
/ Publication No. US20040054137A1
/ GENERAL INFORMATION:
/ APPLICANT: Thompson, Scott A
/ APPLICANT: Ramshaw, Ian A
/ TITLE OF INVENTION: Synthetic molecules and uses therefor
/ FILE REFERENCE: Savine
/ CURRENT APPLICATION NUMBER: US/10/296,734
/ CURRENT FILING DATE: 2003-08-04
/ PRIOR APPLICATION NUMBER: AU P07761/00
/ PRIOR FILING DATE: 2000-05-26
/ NUMBER OF SEQ ID NOS: 1507
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 1354
```

LENGTH: 30  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: PRAME segment 16  
US-10-236-734-1354

Query Match Similarity 73.9%; Score 34; DB 4; Length 30;  
Best Local Similarity 50.0%; Pred. No. 35;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIRITC 8  
Db 12 IEDLEVTCL 19

RESULT 29  
US-10-767-701-31617  
Sequence 31617, Application US/10767701  
Publication No. US20040172684A1  
GENERAL INFORMATION:  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53535)B  
CURRENT APPLICATION NUMBER: US/10/767,701  
CURRENT FILING DATE: 2004-01-29  
NUMBER OF SEQ ID NOS: 63128  
SEQ ID NO 31617  
LENGTH: 67  
TYPE: PRT  
ORGANISM: Sorghum bicolor  
FEATURE:  
OTHER INFORMATION: Clone ID: SORBI-28MAY03-C101117\_1.pep  
US-10-767-701-31617

Query Match Similarity 73.9%; Score 34; DB 4; Length 67;  
Best Local Similarity 75.0%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QDIRITCV 9  
Db 15 QDIRITCV 22

RESULT 30  
US-10-732-180-228  
Sequence 228, Application US/10732180  
Publication No. US20050037427A1  
GENERAL INFORMATION:  
APPLICANT: Houtzager, Erwin  
APPLICANT: Vijn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
APPLICANT: Francois, Cornelis J.J.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: P58644US20  
CURRENT APPLICATION NUMBER: US/10/732,180  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
PRIOR APPLICATION NUMBER: US 10/316,914  
PRIOR FILING DATE: 2002-12-10  
NUMBER OF SEQ ID NOS: 263  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 228  
LENGTH: 131  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: 1Mab702  
FEATURE:

NAME/KEY: SITE  
LOCATION: (1)..(131)  
US-10-732-180-228

Query Match Similarity 73.9%; Score 34; DB 5; Length 131;  
Best Local Similarity 71.4%; Pred. No. 1.6e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDIRITC 8  
Db 87 EDVEITC 93

RESULT 31  
US-10-316-194-9  
Sequence 9, Application US/10316194  
Publication No. US20030215914A1  
GENERAL INFORMATION:  
APPLICANT: Houtzager, Erwin  
APPLICANT: Vijn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: 2183-5610US  
CURRENT APPLICATION NUMBER: US/10/316,194  
CURRENT FILING DATE: 2002-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
NUMBER OF SEQ ID NOS: 173  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 9  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: 1Mab702  
NAME/KEY: SITE  
LOCATION: (1)..(140)  
US-10-316-194-9

Query Match Similarity 73.9%; Score 34; DB 4; Length 140;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDIRITC 8  
Db 92 EDVEITC 98

RESULT 32  
US-10-316-194-37  
Sequence 37, Application US/10316194  
Publication No. US20030215914A1  
GENERAL INFORMATION:  
APPLICANT: Houtzager, Erwin  
APPLICANT: Vijn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: 2183-5610US  
CURRENT APPLICATION NUMBER: US/10/316,194  
CURRENT FILING DATE: 2002-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
NUMBER OF SEQ ID NOS: 173  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 37  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: VAP amino acid  
OTHER INFORMATION: sequence of 1Mab702  
FEATURE:

NAME/KEY: SITE  
LOCATION: (1)..(140)  
US-10-316-194-37

Query Match 73.9%; Score 34; DB 4; Length 140;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETC 8  
:|||||  
Db 92 EDVEITC 98

RESULT 33  
US-10-732-180-9  
Sequence 9, Application US/10732180  
Publication No. US20050037427A1  
GENERAL INFORMATION:

APPLICANT: Houtzager, Erwin  
APPLICANT: Vijjn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: P58644US20  
CURRENT APPLICATION NUMBER: US/10/732,180  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
PRIOR APPLICATION NUMBER: US 10/316,914  
PRIOR FILING DATE: 2002-12-10  
NUMBER OF SEQ ID NOS: 263  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 9  
LENGTH: 140  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Imab702  
NAME/KEY: SITE  
LOCATION: (1)..(140)  
US-10-732-180-9

Query Match 73.9%; Score 34; DB 5; Length 140;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETC 8  
:|||||  
Db 92 EDVEITC 98

RESULT 34  
US-10-732-180-37  
Sequence 37, Application US/10732180  
Publication No. US20050037427A1  
GENERAL INFORMATION:

APPLICANT: Houtzager, Erwin  
APPLICANT: Vijjn, Irma M.C.  
APPLICANT: Sijmons, Peter C.  
TITLE OF INVENTION: A structure for presenting desired peptide sequences  
FILE REFERENCE: P58644US20  
CURRENT APPLICATION NUMBER: US/10/732,180  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: US 10/016,516  
PRIOR FILING DATE: 2001-12-10  
PRIOR APPLICATION NUMBER: US 10/316,914  
PRIOR FILING DATE: 2002-12-10  
NUMBER OF SEQ ID NOS: 263  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 37  
LENGTH: 140

TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: VAP amino acid  
OTHER INFORMATION: Sequence of Imab702  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (1)..(140)  
US-10-732-180-37

Query Match 73.9%; Score 34; DB 5; Length 140;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETC 8  
:|||||  
Db 92 EDVEITC 98

RESULT 35  
US-10-425-115-246840  
Sequence 246840, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovallig, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 246840  
LENGTH: 179  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1)..(179)  
OTHER INFORMATION: unsure at all Xaa locations  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_156700C.1.pep  
US-10-425-115-246840

Query Match 73.9%; Score 34; DB 4; Length 179;  
Best Local Similarity 75.0%; Pred. No. 2.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
|:|||||  
Db 165 LTDIELTC 172

RESULT 36  
US-10-282-122A-47485  
Sequence 47485, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:

APPLICANT: Wang, Liangou  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Heselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms



```
; FILE REFERENCE: EUTRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47485
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
US-10-282-122A-47485
```

```
Query Match      73.9%; Score 34; DB 4; Length 344;
Best Local Similarity 62.5%; Pred. No. 4.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
DB      122 LODVELAC 129
```

```
RESULT 37
US-10-328-675A-74
; Sequence 74, Application US/10328675A
; Publication No. US20030159171A1
; GENERAL INFORMATION:
; APPLICANT: Salmeron, John
; APPLICANT: Weislo, Laura
; APPLICANT: Willits, Michael
; TITLE OF INVENTION: NOVEL PLANT GENES AND USES THEREOF
; FILE REFERENCE: 30857USNP01V1
; CURRENT APPLICATION NUMBER: US/10/328,675A
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 09/519,232
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: 60/219,338
; PRIOR FILING DATE: 1999-03-09
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 74
; LENGTH: 369
; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-10-328-675A-74
```

```
Query Match      73.9%; Score 34; DB 4; Length 369;
Best Local Similarity 71.4%; Pred. No. 4.9e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 DIFITCV 9
DB      227 DLEITCI 233
```

```
RESULT 38
US-10-450-763-42351
; Sequence 42351, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42351
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-42351
```

```
Query Match      73.9%; Score 34; DB 5; Length 378;
Best Local Similarity 50.0%; Pred. No. 5e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LODIETC 8
DB      330 IEDLEVTC 337
```

```
RESULT 39
US-10-450-763-42322
; Sequence 42322, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42322
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-42322
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Query Match      73.9%; Score 34; DB 5; Length 388;
Best Local Similarity 50.0%; Pred. No. 5.1e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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QY      1 LODIETC 8
DB      330 IEDLEVTC 337
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RESULT 40
US-10-732-923-20210
; Sequence 20210, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
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; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 20210
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Phlebia radiata
US-10-732-923-20210

Query Match          73.9%; Score 34; DB 5; Length 390;
Best Local Similarity 71.4%; Pred. No. 5.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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QY 2 QDIETC 8  
DB 337 QDIETC 343

RESULT 41  
US-09-804-357-6  
; Sequence 6, Application US/09804357  
; Patent No. US20010024808A1  
; GENERAL INFORMATION:  
; APPLICANT: White, David  
; APPLICANT: Zhou, Jiahong  
; APPLICANT: Tartaglia, Louis A.  
; TITLE OF INVENTION: LEPTIN INDUCED GENES  
; FILE REFERENCE: 07334/109001  
; CURRENT APPLICATION NUMBER: US/09/804,357  
; CURRENT FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 09/195,896  
; PRIOR FILING DATE: 1998-11-19  
; PRIOR APPLICATION NUMBER: US 60/108,379  
; PRIOR FILING DATE: 1998-10-29  
; PRIOR APPLICATION NUMBER: US 09/150,857  
; PRIOR FILING DATE: 1998-09-10  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 6  
; LENGTH: 400  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-804-357-6

Query Match 73.9%; Score 34; DB 3; Length 400;  
Best Local Similarity 66.7%; Pred. No. 5.3e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
DB 193 LODIETCV 201

RESULT 42  
US-09-804-006-6  
; Sequence 6, Application US/09804006  
; Patent No. US20020119517A1  
; GENERAL INFORMATION:  
; APPLICANT: White, David  
; APPLICANT: Zhou, Jiahong  
; APPLICANT: Tartaglia, Louis A.  
; TITLE OF INVENTION: LEPTIN INDUCED GENES  
; FILE REFERENCE: 07334/126001  
; CURRENT APPLICATION NUMBER: US/09/804,006  
; CURRENT FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 09/292,228  
; PRIOR FILING DATE: 1999-04-15  
; PRIOR APPLICATION NUMBER: US 60/108,379  
; PRIOR FILING DATE: 1998-10-29

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; PRIOR APPLICATION NUMBER: US 09/150,857
; PRIOR FILING DATE: 1998-09-10
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-804-006-6

Query Match          73.9%; Score 34; DB 3; Length 400;
Best Local Similarity 66.7%; Pred. No. 5.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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QY 1 LODIETCV 9  
DB 193 LODIETCV 201

RESULT 43  
US-10-097-340-254  
; Sequence 254, Application US/10097340  
; Publication No. US20030087250A1  
; GENERAL INFORMATION:  
; APPLICANT: John MONAHAN  
; APPLICANT: Manjula GANNAVAPU  
; APPLICANT: Sebastian HOERCH  
; APPLICANT: Shubhangi KAMATKAR  
; APPLICANT: Steve G. KOVATS  
; APPLICANT: Rachel E. MEYERS  
; APPLICANT: Michael MORRISSEY  
; APPLICANT: Peter OLANDT  
; APPLICANT: Aml SEN  
; APPLICANT: Peter VEIBY  
; APPLICANT: Gordon B. MILLS  
; APPLICANT: Robert C. BAST, Jr.  
; APPLICANT: Karen LU  
; APPLICANT: Rosemarie SCHMANDT  
; APPLICANT: Xumel ZHAO  
; APPLICANT: Karen GLATT  
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,  
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer  
; FILE REFERENCE: MRI-030  
; CURRENT APPLICATION NUMBER: US/10/097,340  
; CURRENT FILING DATE: 2002-03-14  
; PRIOR APPLICATION NUMBER: 60/276,025  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/325,149  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/276,026  
; PRIOR FILING DATE: 2001-03-14  
; PRIOR APPLICATION NUMBER: 60/324,967  
; PRIOR FILING DATE: 2001/09/26  
; PRIOR APPLICATION NUMBER: 60/311,732  
; PRIOR FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: 60/325,102  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/323,580  
; PRIOR FILING DATE: 2001-09-19  
; NUMBER OF SEQ ID NOS: 363  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 254  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-097-340-254

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8  
DB 193 LODIETC 201

Db 235 IEDELEVC 242

RESULT 44  
US-10-157-031-44  
; Sequence 44, Application US/10157031  
; Publication No. US20030108890A1  
; GENERAL INFORMATION:  
; APPLICANT: Baranova, A. V.  
; APPLICANT: Yankovsky, N. K.  
; APPLICANT: Kozlov, A. P.  
; APPLICANT: Lobashev, A. V.  
; APPLICANT: Krukovskaya, L. L.  
; TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences  
; FILE REFERENCE: 2760-103  
; CURRENT APPLICATION NUMBER: US/10/157,031  
; PRIORITY FILING DATE: 2002-05-30  
; NUMBER OF SEQ ID NOS: 415  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 44  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-157-031-44

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
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Db 235 IEDELEVC 242

RESULT 45  
US-10-170-385-87  
; Sequence 87, Application US/10170385  
; Publication No. US20030203372A1  
; GENERAL INFORMATION:  
; APPLICANT: Ward, Neil Raymond  
; APPLICANT: Mundy, Christopher Robert  
; APPLICANT: Kan, On  
; APPLICANT: Harris, Robert Alan  
; APPLICANT: White, Kathleen  
; APPLICANT: Binley, Katie Mary  
; APPLICANT: Rayner, William Nigel  
; APPLICANT: Naylor, Stuart  
; APPLICANT: Kingman, Susan Mary  
; APPLICANT: Krige, David  
; TITLE OF INVENTION: ANALYSIS METHOD  
; FILE REFERENCE: 532682000100  
; CURRENT APPLICATION NUMBER: US/10/170,385  
; PRIORITY FILING DATE: 2002-06-12  
; PRIOR APPLICATION NUMBER: PCT/GB02/01662  
; PRIOR FILING DATE: 2002-04-08  
; PRIOR APPLICATION NUMBER: PCT/GB01/05458  
; PRIOR FILING DATE: 2001-12-10  
; NUMBER OF SEQ ID NOS: 549  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 87  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
US-10-170-385-87

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
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Db 235 IEDELEVC 242

RESULT 46  
US-10-117-937-77  
; Sequence 77, Application US/10117937  
; Publication No. US20030220239A1  
; GENERAL INFORMATION:  
; APPLICANT: CTL IMMUNO THERAPIES CORP.  
; APPLICANT: STWARD, John, J.L.  
; APPLICANT: DIAMOND, David, C.  
; APPLICANT: Liu, Liping  
; APPLICANT: XIE, Zhidong  
; TITLE OF INVENTION: EPITOPE SEQUENCES  
; FILE REFERENCE: C11MM 027A  
; CURRENT APPLICATION NUMBER: US/10/117,937  
; PRIORITY FILING DATE: 2002-04-04  
; PRIOR APPLICATION NUMBER: US 60/282,211  
; PRIOR FILING DATE: 2001-04-06  
; PRIOR APPLICATION NUMBER: US 60/337,017  
; PRIOR FILING DATE: 2001-11-07  
; PRIOR APPLICATION NUMBER: US 60/363,210  
; PRIOR FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 602  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 77  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-117-937-77

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
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Db 235 IEDELEVC 242

RESULT 47  
US-10-173-999-2  
; Sequence 2, Application US/10173999  
; Publication No. US20040005563A1  
; GENERAL INFORMATION:  
; APPLICANT: Mack, David H.  
; APPLICANT: Gish, Kurt C.  
; APPLICANT: Eos Biotechnology, Inc.  
; TITLE OF INVENTION: Methods of Diagnosis of Ovarian Cancer; Compositions  
; TITLE OF INVENTION: and Methods of Screening for Modulators of Ovarian  
; TITLE OF INVENTION: Cancer  
; FILE REFERENCE: 018501-002420US  
; CURRENT APPLICATION NUMBER: US/10/173,999  
; PRIORITY FILING DATE: 2002-06-17  
; PRIOR APPLICATION NUMBER: US 60/299,234  
; PRIOR FILING DATE: 2001-06-18  
; PRIOR APPLICATION NUMBER: US 60/315,287  
; PRIOR FILING DATE: 2001-08-27  
; PRIOR APPLICATION NUMBER: US 60/350,666  
; PRIOR FILING DATE: 2001-11-13  
; PRIOR APPLICATION NUMBER: US 60/372,246  
; PRIOR FILING DATE: 2001-04-12  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 509  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-173-999-2

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
:::|:|

Db 235 IDLEVTC 242

## RESULT 48

US-10-058-270A-110  
Sequence 110, Application US/10058270A  
Publication No. US2004002911A1  
GENERAL INFORMATION:  
APPLICANT: Mack, David H.  
APPLICANT: Gish, Kurt C.  
APPLICANT: Afari, Daniel  
APPLICANT: Eos Biotechnology, Inc.  
TITLE OF INVENTION: Methods of Diagnosis of Breast Cancer, Compositions and  
FILE REFERENCE: 018501-005210US  
CURRENT APPLICATION NUMBER: US/10/058, 270A  
PRIORITY FILING DATE: 2002-01-24  
PRIORITY APPLICATION NUMBER: US 60/263, 965  
PRIORITY FILING DATE: 2001-01-24  
PRIORITY APPLICATION NUMBER: US 60/265, 928  
PRIORITY FILING DATE: 2001-02-02  
PRIORITY APPLICATION NUMBER: US 09/829, 472  
PRIORITY FILING DATE: 2001-04-09  
PRIORITY APPLICATION NUMBER: US 60/282, 638  
PRIORITY FILING DATE: 2001-04-09  
PRIORITY APPLICATION NUMBER: US 60/288, 590  
PRIORITY FILING DATE: 2001-05-04  
PRIORITY APPLICATION NUMBER: US 60/294, 443  
PRIORITY FILING DATE: 2001-05-29  
NUMBER OF SEQ ID NOS: 141  
SOFTWARE: Patentn Ver. 2.1  
SEQ ID NO 110  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-058-270A-110

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8

Db 235 IDLEVTC 242

## RESULT 49

US-10-296-734-830  
Sequence 830, Application US/10296734  
Publication No. US20040054137A1  
GENERAL INFORMATION:  
APPLICANT: Thompson, Scott A  
APPLICANT: Ramshaw, Ian A  
TITLE OF INVENTION: Synthetic molecules and uses therefor  
FILE REFERENCE: Savine  
CURRENT APPLICATION NUMBER: US/10/296, 734  
CURRENT FILING DATE: 2003-08-04  
PRIORITY APPLICATION NUMBER: AU PQ761/00  
PRIORITY FILING DATE: 2000-05-26  
NUMBER OF SEQ ID NOS: 1507  
SOFTWARE: Patentn version 3.2  
SEQ ID NO 830  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: PRAME consensus polypeptide  
US-10-296-734-830

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8  
Db 235 IDLEVTC 242

## RESULT 50

US-10-657-022-77  
Sequence 77, Application US/10657022  
Publication No. US2004018035A1  
GENERAL INFORMATION:  
APPLICANT: Simard, John J. L.  
APPLICANT: Diamond, David C.  
APPLICANT: Liu, Liping  
APPLICANT: Liu, Zheng  
TITLE OF INVENTION: EPITOPE SEQUENCES  
FILE REFERENCE: MANNK, 032A  
CURRENT APPLICATION NUMBER: US/10/657, 022  
CURRENT FILING DATE: 2003-09-04  
PRIORITY FILING DATE: 2002-09-06  
PRIORITY APPLICATION NUMBER: 60/409123  
NUMBER OF SEQ ID NOS: 610  
SOFTWARE: FastSeq for windows Version 4.0  
SEQ ID NO 77  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-657-022-77

Query Match 73.9%; Score 34; DB 4; Length 509;  
Best Local Similarity 50.0%; Pred. No. 6.8e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8

Db 235 IDLEVTC 242

Search completed: May 5, 2006, 07:55:28  
Job time : 67.9 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds  
(without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-23  
Perfect score: 46  
Sequence: 1 LQDIETCV 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

## Database :

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2: /SID55/ptodata/1/pubppa/US06\_NEW\_PUB.pep.\*  
3: /SID55/ptodata/1/pubppa/US07\_NEW\_PUB.pep.\*  
4: /SID55/ptodata/1/pubppa/US08\_NEW\_PUB.pep.\*  
5: /SID55/ptodata/1/pubppa/PCT\_NEW\_PUB.pep.\*  
6: /SID55/ptodata/1/pubppa/US05\_NEW\_PUB.pep.\*  
7: /SID55/ptodata/1/pubppa/US09\_NEW\_PUB.pep1.\*  
8: /SID55/ptodata/1/pubppa/US10\_NEW\_PUB.pep1.\*  
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10: /SID55/ptodata/1/pubppa/US11\_NEW\_PUB.pep1.\*  
11: /SID55/ptodata/1/pubppa/US11\_NEW\_PUB.pep1.\*  
12: /SID55/ptodata/1/pubppa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	100.0	15	US-10-530-061-1659	Sequence 1659, Ap
2	46	100.0	158	US-10-530-253-15	Sequence 15, Appl
3	40	87.0	10	US-10-530-061-55	Sequence 55, Appl
4	40	87.0	10	US-10-530-061-112	Sequence 112, Appl
5	37	80.4	10	US-10-530-061-517	Sequence 517, Appl
6	35	76.1	158	US-10-530-253-19	Sequence 19, Appl
7	35	76.1	158	US-10-530-253-20	Sequence 20, Appl
8	35	76.1	673	US-11-188-298-1612	Sequence 1612, Ap
9	34	73.9	390	US-11-087-099-4671	Sequence 4671, Ap
10	34	73.9	509	US-11-155-288-8	Sequence 8, Appl
11	33	71.7	366	US-10-329-258-27	Sequence 27, Appl
12	33	71.7	366	US-11-000-463-410	Sequence 410, Appl
13	33	71.7	366	US-11-000-463-882	Sequence 882, Appl
14	33	71.7	633	US-11-188-298-2647	Sequence 2647, Appl
15	32	69.6	210	US-11-096-568A-22460	Sequence 22460, A
16	32	69.6	243	US-11-096-568A-22478	Sequence 22478, A
17	32	69.6	304	US-11-096-568A-22479	Sequence 22479, A
18	32	69.6	306	US-11-096-568A-19985	Sequence 19985, A
19	32	69.6	307	US-11-096-568A-19985	Sequence 19985, A
20	32	69.6	314	US-11-096-568A-19984	Sequence 19984, A
21	32	69.6	322	US-11-096-568A-5396	Sequence 5396, Ap

22	32	69.6	329	US-11-096-568A-5395	Sequence 5395, Ap
23	32	69.6	329	US-11-096-568A-5394	Sequence 5394, Ap
24	31	67.4	180	US-10-530-253-25	Sequence 25, Appl
25	31	67.4	285	US-11-188-298-17365	Sequence 17365, A
26	31	67.4	328	US-11-188-298-19258	Sequence 19258, A
27	31	67.4	331	US-11-096-568A-10573	Sequence 10573, A
28	31	67.4	338	US-11-096-568A-10572	Sequence 10572, A
29	31	67.4	367	US-11-096-568A-10571	Sequence 10571, A
30	31	67.4	367	US-11-087-099-1194	Sequence 1194, Ap
31	31	67.4	367	US-11-087-099-9326	Sequence 9326, Ap
32	31	67.4	387	US-11-087-099-10451	Sequence 10451, A
33	31	67.4	452	US-10-506-454-444	Sequence 444, Appl
34	31	67.4	532	US-10-517-939-286	Sequence 286, Appl
35	31	67.4	618	US-10-915-002-335	Sequence 335, Appl
36	31	67.4	1326	US-11-079-463-5820	Sequence 5820, Ap
37	30	65.2	143	US-10-995-951A-28	Sequence 28, Appl
38	30	65.2	143	US-10-995-951A-30	Sequence 30, Appl
39	30	65.2	143	US-11-067-425A-63	Sequence 63, Appl
40	30	65.2	185	US-11-079-463-7852	Sequence 7852, Ap
41	30	65.2	248	US-11-087-099-5353	Sequence 5353, Ap
42	30	65.2	292	US-11-129-143-96	Sequence 96, Appl
43	30	65.2	342	US-11-188-298-10173	Sequence 10173, A
44	30	65.2	342	US-11-188-298-21203	Sequence 21203, A
45	30	65.2	377	US-11-087-099-1029	Sequence 1029, Ap
46	30	65.2	378	US-11-087-099-8872	Sequence 8872, Ap
47	30	65.2	378	US-11-087-099-11183	Sequence 11183, A
48	30	65.2	380	US-11-087-099-3689	Sequence 3689, Ap
49	30	65.2	382	US-11-087-099-12203	Sequence 12203, A
50	30	65.2	486	US-11-079-463-65559	Sequence 6559, Ap
51	30	65.2	511	US-11-012-762-64	Sequence 64, Appl
52	30	65.2	512	US-11-012-762-68	Sequence 68, Appl
53	30	65.2	648	US-11-188-298-695	Sequence 695, Appl
54	30	65.2	935	US-10-350-773-59	Sequence 59, Appl
55	30	65.2	1102	US-11-096-568A-30725	Sequence 30725, A
56	30	65.2	1156	US-11-096-568A-30724	Sequence 30724, A
57	30	65.2	1240	US-11-096-568A-30723	Sequence 30723, A
58	29	63.0	10	US-10-530-061-62	Sequence 62, Appl
59	29	63.0	10	US-10-530-061-113	Sequence 113, Appl
60	29	63.0	165	US-11-096-568A-14922	Sequence 14922, A
61	29	63.0	193	US-11-096-568A-14921	Sequence 14921, A
62	29	63.0	206	US-11-096-568A-7790	Sequence 7790, Ap
63	29	63.0	224	US-11-096-568A-7789	Sequence 7789, Ap
64	29	63.0	258	US-11-096-568A-14920	Sequence 14920, A
65	29	63.0	292	US-11-129-143-95	Sequence 95, Appl
66	29	63.0	314	US-11-108-172-1110	Sequence 1110, Ap
67	29	63.0	314	US-11-203-526-42	Sequence 42, Appl
68	29	63.0	345	US-11-188-298-10156	Sequence 10156, A
69	29	63.0	348	US-11-087-099-10136	Sequence 10136, A
70	29	63.0	381	US-11-087-099-3485	Sequence 3485, Ap
71	29	63.0	429	US-11-188-298-1582	Sequence 1582, Ap
72	29	63.0	452	US-11-087-099-2368	Sequence 2368, Ap
73	29	63.0	452	US-11-087-099-8208	Sequence 8208, Ap
74	29	63.0	452	US-11-087-099-856	Sequence 856, Appl
75	29	63.0	503	US-11-013-247A-4	Sequence 4, Appl1
76	29	63.0	544	US-11-087-099-5596	Sequence 5596, Ap
77	29	63.0	572	US-11-188-298-7715	Sequence 7715, Ap
78	29	63.0	578	US-10-763-712A-34	Sequence 34, Appl
79	29	63.0	578	US-11-087-099-359	Sequence 359, Appl
80	29	63.0	720	US-11-087-099-7216	Sequence 7216, Ap
81	29	63.0	724	US-11-087-099-3655	Sequence 3655, Ap
82	29	63.0	734	US-10-501-035-347	Sequence 347, Appl
83	29	63.0	2228	US-10-511-096-2	Sequence 2, Appl1
84	29	63.0	2230	US-10-511-096-4	Sequence 4, Appl1
85	29	63.0	2250	US-10-511-096-6	Sequence 6, Appl1
86	29	63.0	2252	US-10-511-096-8	Sequence 8, Appl1
87	28	60.9	91	US-11-045-004-2302	Sequence 2302, Ap
88	28	60.9	94	US-10-465-788A-802	Sequence 802, Appl
89	28	60.9	94	US-11-053-076-184	Sequence 184, Appl
90	28	60.9	95	US-10-218-784-82	Sequence 82, Appl
91	28	60.9	95	US-10-219-061-82	Sequence 82, Appl
92	28	60.9	95	US-10-219-062-82	Sequence 82, Appl
93	28	60.9	95	US-10-219-062-82	Sequence 82, Appl
94	28	60.9	95	US-10-219-064-82	Sequence 82, Appl

95	28	60.9	95	9	US-10-233-134-82	Sequence 82, Appl	168	27	58.7	189	11	US-11-188-298-11217	Sequence 11217, A
96	28	60.9	103	11	US-11-000-463-740	Sequence 740, Appl	169	27	58.7	189	11	US-11-188-298-20091	Sequence 20091, A
97	28	60.9	111	11	US-11-000-463-268	Sequence 268, Appl	170	27	58.7	196	11	US-11-188-298-20798	Sequence 20798, A
98	28	60.9	132	11	US-11-096-568A-14484	Sequence 14484, A	171	27	58.7	199	9	US-10-506-454-480	Sequence 480, Appl
99	28	60.9	135	11	US-11-096-568A-14483	Sequence 14483, A	172	27	58.7	208	11	US-11-188-298-6198	Sequence 6198, Ap
100	28	60.9	158	9	US-10-530-253-26	Sequence 26, Appl	173	27	58.7	215	9	US-10-574-954-9	Sequence 9, Appl1
101	28	60.9	166	11	US-11-172-740-902	Sequence 902, Appl	174	27	58.7	215	11	US-11-096-568A-27068	Sequence 27068, A
102	28	60.9	175	11	US-11-072-512-3905	Sequence 3905, Ap	175	27	58.7	217	11	US-11-188-298-7973	Sequence 7973, Ap
103	28	60.9	176	9	US-10-965-694-27	Sequence 27, Appl1	176	27	58.7	218	11	US-11-218-821-8	Sequence 8, Appl1
104	28	60.9	214	11	US-11-098-686-10210	Sequence 10210, A	177	27	58.7	218	11	US-11-208-422-36	Sequence 36, Appl1
105	28	60.9	221	11	US-11-096-568A-95210	Sequence 9521, A	178	27	58.7	223	11	US-11-096-568A-77067	Sequence 27067, A
106	28	60.9	221	11	US-11-172-740-1624	Sequence 1624, Ap	179	27	58.7	225	11	US-11-096-568A-27066	Sequence 27066, A
107	28	60.9	226	9	US-10-714-687-180	Sequence 180, Appl	180	27	58.7	227	11	US-11-096-568A-33751	Sequence 33751, A
108	28	60.9	225	11	US-11-188-298-4249	Sequence 4249, Ap	181	27	58.7	237	9	US-10-793-626-3288	Sequence 3288, Ap
109	28	60.9	272	11	US-11-096-568A-9520	Sequence 9520, Appl	182	27	58.7	240	11	US-11-096-568A-33750	Sequence 33750, A
110	28	60.9	325	11	US-11-087-099-10284	Sequence 10284, A	183	27	58.7	242	9	US-10-821-234-1078	Sequence 1078, Ap
111	28	60.9	328	11	US-11-024-959-517	Sequence 517, Appl	184	27	58.7	246	11	US-11-099-666-11424	Sequence 11424, A
112	28	60.9	328	11	US-11-096-568A-4556	Sequence 4556, Ap	185	27	58.7	246	11	US-11-233-406A-14	Sequence 14, Appl1
113	28	60.9	332	11	US-11-096-568A-4555	Sequence 4555, Ap	186	27	58.7	298	11	US-11-098-666-11250	Sequence 11250, A
114	28	60.9	334	11	US-11-087-099-7097	Sequence 7097, Ap	187	27	58.7	298	11	US-11-188-298-20248	Sequence 20248, A
115	28	60.9	335	11	US-11-072-175-245	Sequence 245, Appl	188	27	58.7	299	9	US-10-455-772-954	Sequence 954, Appl
116	28	60.9	359	9	US-10-888-962-5	Sequence 5, Appl1	189	27	58.7	302	11	US-11-156-084-334	Sequence 334, Appl
117	28	60.9	359	11	US-11-088-962-5	Sequence 359, Ap	190	27	58.7	305	9	US-10-793-626-2062	Sequence 2062, Ap
118	28	60.9	428	9	US-10-513-639-13	Sequence 13, Appl1	191	27	58.7	307	9	US-10-467-657-2588	Sequence 2588, Ap
119	28	60.9	448	11	US-11-013-247A-5	Sequence 5, Appl1	192	27	58.7	314	9	US-10-878-556A-39	Sequence 39, Appl1
120	28	60.9	467	11	US-11-264-096-1976	Sequence 1976, Ap	193	27	58.7	315	11	US-11-022-477-3	Sequence 3, Appl1
121	28	60.9	469	9	US-10-453-372-344	Sequence 344, Appl	194	27	58.7	321	11	US-11-096-568A-10522	Sequence 10522, A
122	28	60.9	485	9	US-10-793-626-1346	Sequence 1346, Ap	195	27	58.7	321	11	US-11-096-568A-33749	Sequence 33749, A
123	28	60.9	489	11	US-11-188-298-8649	Sequence 8649, Ap	196	27	58.7	328	11	US-11-188-298-17378	Sequence 17378, A
124	28	60.9	501	11	US-11-013-247A-2	Sequence 2, Appl1	197	27	58.7	329	11	US-11-188-298-23270	Sequence 22270, A
125	28	60.9	529	11	US-11-013-247A-17	Sequence 17, Appl1	198	27	58.7	334	11	US-11-096-568A-33251	Sequence 23251, A
126	28	60.9	531	11	US-11-079-463-8437	Sequence 8437, Ap	199	27	58.7	338	9	US-10-914-165-37	Sequence 37, Appl1
127	28	60.9	559	11	US-11-031-206-116	Sequence 116, Appl	200	27	58.7	338	11	US-11-188-298-13422	Sequence 13422, A
128	28	60.9	570	11	US-11-188-298-7620	Sequence 7620, Ap	201	27	58.7	339	11	US-11-188-298-17593	Sequence 17593, A
129	28	60.9	598	11	US-11-079-463-5985	Sequence 5985, Ap	202	27	58.7	338	11	US-11-188-298-20971	Sequence 20971, A
130	28	60.9	626	9	US-10-498-026-89	Sequence 89, Appl1	203	27	58.7	343	11	US-11-144-229-14815	Sequence 14815, A
131	28	60.9	626	11	US-11-033-039-10	Sequence 10, Appl1	204	27	58.7	344	11	US-11-188-298-15117	Sequence 2, Appl1
132	28	60.9	680	9	US-10-506-454-1090	Sequence 1090, Ap	205	27	58.7	344	11	US-11-096-568A-10521	Sequence 10521, A
133	28	60.9	696	9	US-10-453-372-324	Sequence 324, Appl	206	27	58.7	350	11	US-11-087-099-315	Sequence 315, Appl
134	28	60.9	696	9	US-10-453-372-336	Sequence 336, Appl	207	27	58.7	352	11	US-11-096-568A-10520	Sequence 10520, A
135	28	60.9	696	9	US-10-453-372-344	Sequence 346, Appl	208	27	58.7	359	9	US-10-455-772-952	Sequence 952, Appl
136	28	60.9	696	9	US-10-453-372-354	Sequence 356, Appl	209	27	58.7	363	9	US-10-455-772-950	Sequence 950, Appl
137	28	60.9	696	9	US-10-453-372-356	Sequence 356, Appl	210	27	58.7	367	11	US-11-096-568A-25243	Sequence 25243, A
138	28	60.9	696	9	US-10-453-372-358	Sequence 358, Appl	211	27	58.7	368	11	US-11-188-298-15342	Sequence 15342, A
139	28	60.9	696	9	US-10-453-372-360	Sequence 360, Appl	212	27	58.7	370	11	US-11-096-568A-15117	Sequence 15117, A
140	28	60.9	696	9	US-10-453-372-362	Sequence 362, Appl	213	27	58.7	375	9	US-10-455-772-948	Sequence 948, Appl
141	28	60.9	696	9	US-10-453-372-364	Sequence 364, Appl	214	27	58.7	375	11	US-11-096-568A-25242	Sequence 25242, A
142	28	60.9	696	9	US-10-453-372-366	Sequence 366, Appl	215	27	58.7	379	11	US-11-096-568A-33250	Sequence 33250, A
143	28	60.9	700	9	US-10-453-372-368	Sequence 368, Appl	216	27	58.7	380	11	US-11-096-568A-33250	Sequence 10593, A
144	28	60.9	700	9	US-10-453-372-326	Sequence 326, Appl	217	27	58.7	382	11	US-11-087-099-10593	Sequence 10593, A
145	28	60.9	712	11	US-11-264-096-1856	Sequence 1856, Ap	218	27	58.7	382	11	US-11-096-568A-15116	Sequence 15116, A
146	28	60.9	712	9	US-10-453-372-322	Sequence 322, Appl	219	27	58.7	384	9	US-10-523-038-1	Sequence 1, Appl1
147	28	60.9	750	11	US-11-225-354-1	Sequence 1, Appl1	220	27	58.7	384	11	US-11-129-442-21	Sequence 21, Appl1
148	28	60.9	757	9	US-10-453-372-320	Sequence 320, Appl	221	27	58.7	384	11	US-11-129-442-39	Sequence 39, Appl1
149	28	60.9	757	9	US-10-453-372-350	Sequence 350, Appl	222	27	58.7	384	11	US-11-129-442-41	Sequence 41, Appl1
150	28	60.9	757	9	US-10-453-372-352	Sequence 352, Appl	223	27	58.7	385	11	US-11-096-568A-33249	Sequence 23249, A
151	28	60.9	763	9	US-10-453-372-328	Sequence 328, Appl	224	27	58.7	401	11	US-11-079-463-10037	Sequence 10037, A
152	28	60.9	773	9	US-10-453-372-348	Sequence 348, Appl	225	27	58.7	412	9	US-10-506-454-866	Sequence 866, Appl
153	28	60.9	778	9	US-10-453-372-330	Sequence 330, Appl	226	27	58.7	414	11	US-11-096-568A-25241	Sequence 25241, A
154	28	60.9	840	11	US-11-188-298-10778	Sequence 10778, A	227	27	58.7	417	11	US-11-096-568A-15115	Sequence 15115, A
155	28	60.9	841	9	US-10-453-372-334	Sequence 334, Appl	228	27	58.7	428	9	US-10-506-454-122	Sequence 122, Appl
156	28	60.9	957	11	US-11-098-686-11422	Sequence 11422, A	229	27	58.7	430	9	US-10-667-657-2346	Sequence 2346, Ap
157	28	60.9	1267	11	US-11-109-156-35	Sequence 35, Appl	230	27	58.7	447	11	US-11-169-041-142	Sequence 142, Appl
158	28	60.9	1375	11	US-11-044-111-23	Sequence 23, Appl1	231	27	58.7	449	11	US-11-133-360-12	Sequence 12, Appl1
159	28	60.9	3475	11	US-11-087-099-10885	Sequence 10885, A	232	27	58.7	449	11	US-11-133-346-12	Sequence 12, Appl1
160	27	58.7	10	9	US-10-530-061-65	Sequence 65, Appl1	233	27	58.7	450	11	US-11-133-360-16	Sequence 16, Appl1
161	27	58.7	51	11	US-11-004-399-916	Sequence 916, Appl	234	27	58.7	450	11	US-11-133-360-16	Sequence 18, Appl1
162	27	58.7	57	11	US-11-000-463-937	Sequence 937, Appl	235	27	58.7	450	11	US-11-133-346-18	Sequence 16, Appl1
163	27	58.7	111	9	US-10-982-440-14	Sequence 14, Appl1	236	27	58.7	451	11	US-11-133-346-18	Sequence 18, Appl1
164	27	58.7	119	11	US-11-079-463-7698	Sequence 7698, Ap	237	27	58.7	451	9	US-10-509-773-13	Sequence 12, Appl1
165	27	58.7	122	11	US-11-072-512-3515	Sequence 3515, Ap	238	27	58.7	452	11	US-11-188-298-8926	Sequence 8926, Ap
166	27	58.7	148	11	US-11-072-512-2971	Sequence 2971, Ap	239	27	58.7	454	11	US-11-096-568A-19388	Sequence 19388, A
167	27	58.7	175	11	US-11-188-298-9926	Sequence 9926, Ap	240	27	58.7	465	8	US-10-505-928-549	Sequence 549, Appl

241	27	58.7	465	11	US-11-186-284-197	Sequence 197, App	314	26	56.5	108	11	US-11-049-536-540	Sequence 540, App
242	27	58.7	469	11	US-11-133-360-14	Sequence 14, Appl	315	26	56.5	108	11	US-11-199-729-540	Sequence 540, App
243	27	58.7	469	11	US-11-133-346-14	Sequence 14, Appl	316	26	56.5	109	11	US-11-421-900-4	Sequence 4, Appl
244	27	58.7	471	11	US-11-072-512-3482	Sequence 3482, Ap	317	26	56.5	109	11	US-11-087-099-3477	Sequence 3477, Ap
245	27	58.7	475	11	US-11-096-568A-10965	Sequence 10965, A	318	26	56.5	110	9	US-10-771-257-37	Sequence 37, Appl
246	27	58.7	478	11	US-11-096-568A-10964	Sequence 10964, A	319	26	56.5	110	9	US-10-935-005B-76	Sequence 76, Appl
247	27	58.7	484	11	US-11-096-568A-19387	Sequence 19387, A	320	26	56.5	110	9	US-10-935-005B-77	Sequence 77, Appl
248	27	58.7	492	11	US-11-072-512-3481	Sequence 3481, Ap	321	26	56.5	110	9	US-10-935-005B-79	Sequence 79, Appl
249	27	58.7	508	11	US-11-096-568A-10963	Sequence 10963, A	322	26	56.5	110	9	US-10-935-005B-80	Sequence 80, Appl
250	27	58.7	512	11	US-11-045-004-874	Sequence 874, App	323	26	56.5	110	11	US-11-127-677-37	Sequence 37, Appl
251	27	58.7	515	11	US-11-096-568A-416	Sequence 416, App	324	26	56.5	110	11	US-11-235-776A-22	Sequence 22, Appl
252	27	58.7	517	11	US-11-188-298-20792	Sequence 20792, A	325	26	56.5	110	11	US-11-235-776A-23	Sequence 23, Appl
253	27	58.7	522	11	US-11-188-298-13552	Sequence 13552, A	326	26	56.5	110	11	US-11-235-776A-25	Sequence 25, Appl
254	27	58.7	522	11	US-11-188-298-13592	Sequence 13592, A	327	26	56.5	110	11	US-11-235-776A-26	Sequence 26, Appl
255	27	58.7	525	8	US-10-503-253A-4	Sequence 4, Appl1	328	26	56.5	113	11	US-11-197-038-42	Sequence 42, Appl
256	27	58.7	537	9	US-10-330-773-263	Sequence 263, App	329	26	56.5	113	11	US-11-197-644-42	Sequence 42, Appl
257	27	58.7	542	11	US-11-031-206-110	Sequence 110, App	330	26	56.5	114	9	US-10-454-437-204	Sequence 204, App
258	27	58.7	559	11	US-11-096-568A-415	Sequence 415, App	331	26	56.5	121	11	US-11-188-298-12838	Sequence 12838, A
259	27	58.7	559	11	US-11-096-568A-417	Sequence 417, App	332	26	56.5	136	9	US-10-475-075-817	Sequence 817, App
260	27	58.7	571	11	US-11-072-512-3779	Sequence 3779, App	333	26	56.5	137	11	US-11-188-298-17739	Sequence 7739, Ap
261	27	58.7	577	9	US-10-493-909-66	Sequence 66, Appl	334	26	56.5	137	11	US-11-188-298-18961	Sequence 18961, A
262	27	58.7	590	11	US-11-096-568A-414	Sequence 414, App	335	26	56.5	139	9	US-10-995-561-613	Sequence 613, App
263	27	58.7	610	11	US-11-072-512-2672	Sequence 2672, Ap	336	26	56.5	139	11	US-11-169-041-201	Sequence 201, App
264	27	58.7	647	11	US-11-188-298-21861	Sequence 21861, A	337	26	56.5	144	11	US-11-188-298-13642	Sequence 13642, A
265	27	58.7	653	11	US-11-079-463-8199	Sequence 8199, App	338	26	56.5	147	11	US-11-188-298-17883	Sequence 17883, A
266	27	58.7	726	11	US-11-072-512-2042	Sequence 2042, Ap	339	26	56.5	149	9	US-10-530-253-17	Sequence 17, Appl
267	27	58.7	738	8	US-10-511-937-2418	Sequence 2418, Ap	340	26	56.5	158	11	US-11-188-298-18071	Sequence 18071, A
268	27	58.7	738	9	US-10-995-561-692	Sequence 692, App	341	26	56.5	158	11	US-11-188-298-22222	Sequence 22222, A
269	27	58.7	738	9	US-10-995-561-693	Sequence 693, App	342	26	56.5	158	11	US-11-188-298-22222	Sequence 22222, A
270	27	58.7	747	9	US-10-784-004-536	Sequence 536, App	343	26	56.5	161	10	US-11-219-563-142	Sequence 142, App
271	27	58.7	747	9	US-10-784-004-720	Sequence 720, App	344	26	56.5	161	11	US-11-218-813-142	Sequence 1268, Ap
272	27	58.7	747	9	US-10-784-004-721	Sequence 721, App	345	26	56.5	167	11	US-11-188-298-2268	Sequence 2118, A
273	27	58.7	759	11	US-11-096-568A-29705	Sequence 29705, A	346	26	56.5	167	11	US-11-087-099-3173	Sequence 499, App
274	27	58.7	764	11	US-11-096-568A-29705	Sequence 29705, A	347	26	56.5	168	11	US-11-264-096-4206	Sequence 4206, App
275	27	58.7	767	11	US-11-096-568A-29704	Sequence 29704, A	348	26	56.5	173	11	US-11-188-298-8372	Sequence 8372, Ap
276	27	58.7	775	11	US-11-188-298-15696	Sequence 15696, A	349	26	56.5	179	11	US-11-087-099-3173	Sequence 3173, Ap
277	27	58.7	817	9	US-10-793-626-2948	Sequence 2948, Ap	350	26	56.5	180	11	US-11-188-298-15204	Sequence 15204, A
278	27	58.7	836	11	US-11-165-819-3	Sequence 3, Appl1	351	26	56.5	201	11	US-11-055-822-532	Sequence 532, App
279	27	58.7	879	11	US-11-045-004-1086	Sequence 1086, Ap	352	26	56.5	204	11	US-10-506-454-62	Sequence 62, Appl
280	27	58.7	912	9	US-10-501-035-372	Sequence 372, App	353	26	56.5	204	11	US-11-128-440-3	Sequence 3, Appl1
281	27	58.7	947	9	US-10-493-537-17	Sequence 17, Appl	354	26	56.5	204	11	US-11-128-440-15	Sequence 7, Appl1
282	27	58.7	949	9	US-10-506-454-104	Sequence 104, App	355	26	56.5	204	11	US-11-128-440-15	Sequence 15, Appl
283	27	58.7	974	11	US-11-096-568A-26839	Sequence 26839, A	356	26	56.5	204	11	US-11-128-440-3	Sequence 9, Appl1
284	27	58.7	987	9	US-10-770-726-61	Sequence 61, Appl	357	26	56.5	204	11	US-11-128-440-3	Sequence 3, Appl1
285	27	58.7	987	11	US-11-203-251A-87	Sequence 87, Appl	358	26	56.5	204	11	US-11-128-440-15	Sequence 15, Appl
286	27	58.7	995	11	US-11-113-424-62	Sequence 62, Appl	359	26	56.5	204	11	US-11-096-568A-21632	Sequence 21632, A
287	27	58.7	1027	9	US-10-330-773-265	Sequence 265, App	360	26	56.5	205	11	US-11-128-440-5	Sequence 5, Appl1
288	27	58.7	1049	9	US-10-979-095-7	Sequence 7, Appl1	361	26	56.5	206	11	US-11-128-440-5	Sequence 5, Appl1
289	27	58.7	1051	9	US-10-330-773-268	Sequence 268, App	362	26	56.5	206	11	US-11-264-096-684	Sequence 684, App
290	27	58.7	1055	11	US-11-169-041-155	Sequence 159, App	363	26	56.5	206	11	US-11-128-440-6	Sequence 6, Appl1
291	27	58.7	1055	11	US-11-072-512-139	Sequence 139, App	364	26	56.5	208	11	US-11-128-440-6	Sequence 6, Appl1
292	27	58.7	1055	11	US-11-203-251A-86	Sequence 86, Appl	365	26	56.5	208	11	US-11-128-440-10	Sequence 10, Appl
293	27	58.7	1055	11	US-11-051-720-1417	Sequence 1417, Ap	366	26	56.5	209	11	US-11-128-440-10	Sequence 38, Appl
294	27	58.7	1055	11	US-11-096-568A-26838	Sequence 26838, A	367	26	56.5	210	11	US-11-197-038-38	Sequence 38, Appl
295	27	58.7	1057	11	US-11-096-568A-26837	Sequence 26837, A	368	26	56.5	210	11	US-11-197-644-38	Sequence 8, Appl1
296	27	58.7	1390	11	US-11-063-343-35	Sequence 35, Appl	369	26	56.5	211	11	US-11-128-440-8	Sequence 14, Appl
297	27	58.7	231	11	US-11-172-740-1481	Sequence 1481, Ap	370	26	56.5	215	11	US-11-188-298-119051	Sequence 19051, A
298	27	58.7	240	11	US-11-172-740-1482	Sequence 1482, Ap	371	26	56.5	215	11	US-11-128-440-13	Sequence 13, Appl
299	27	58.7	247	11	US-11-172-740-1483	Sequence 1483, Ap	372	26	56.5	216	11	US-11-128-440-11	Sequence 11, Appl
300	26.5	57.6	253	11	US-11-082-389-12	Sequence 12, Appl	373	26	56.5	217	11	US-11-128-821-31	Sequence 31, Appl1
301	26	56.5	10	9	US-10-859-643-177	Sequence 177, App	374	26	56.5	217	11	US-11-128-821-31	Sequence 31, Appl1
302	26	56.5	10	9	US-10-530-061-561	Sequence 561, App	375	26	56.5	217	11	US-11-017-995-32	Sequence 32, Appl
303	26	56.5	10	11	US-11-097-864-177	Sequence 177, App	376	26	56.5	217	11	US-11-128-821-5	Sequence 28, Appl
304	26	56.5	10	11	US-11-097-912-177	Sequence 177, App	377	26	56.5	217	11	US-11-235-776A-29	Sequence 29, Appl
305	26	56.5	15	9	US-10-530-061-1673	Sequence 1673, Ap	378	26	56.5	218	11	US-11-218-821-1	Sequence 1, Appl1
306	26	56.5	15	9	US-11-226-869-627	Sequence 627, App	379	26	56.5	218	11	US-11-218-821-2	Sequence 2, Appl1
307	26	56.5	24	11	US-11-079-463-9096	Sequence 9096, App	380	26	56.5	218	11	US-11-218-821-4	Sequence 4, Appl1
308	26	56.5	81	11	US-11-207-078-192	Sequence 192, App	381	26	56.5	218	11	US-11-218-821-5	Sequence 5, Appl1
309	26	56.5	106	11	US-11-064-174-50	Sequence 50, Appl	382	26	56.5	218	11	US-11-208-422-29	Sequence 29, Appl
310	26	56.5	106	11	US-11-049-536-488	Sequence 488, App	383	26	56.5	218	11	US-11-208-422-30	Sequence 30, Appl
311	26	56.5	106	11	US-11-199-739-488	Sequence 488, App	384	26	56.5	218	11	US-11-208-422-32	Sequence 32, Appl
312	26	56.5	108	9	US-10-771-257-31	Sequence 31, Appl	385	26	56.5	218	11	US-11-208-422-32	Sequence 32, Appl
313	26	56.5	108	11	US-11-127-677-31	Sequence 31, Appl	386	26	56.5	218	11	US-11-208-422-33	Sequence 33, Appl

387	26	56.5	218	11	US-11-217-995-31	Sequence 31, Appl	460	26	56.5	251	11	US-11-266-444-1232	Sequence 1232, Ap
388	26	56.5	218	11	US-11-217-995-33	Sequence 33, Appl	461	26	56.5	253	11	US-11-054-515-1526	Sequence 1526, Ap
389	26	56.5	219	11	US-11-217-995-34	Sequence 34, Appl	462	26	56.5	253	11	US-11-266-444-1526	Sequence 1526, Ap
390	26	56.5	219	11	US-11-128-440-12	Sequence 12, Appl	463	26	56.5	255	11	US-11-057-923-5	Sequence 5, Appl
391	26	56.5	220	11	US-11-197-038-40	Sequence 40, Appl	464	26	56.5	256	11	US-11-029-003-14	Sequence 14, Appl
392	26	56.5	220	11	US-11-208-422-38	Sequence 38, Appl	465	26	56.5	257	11	US-11-079-463-8138	Sequence 8138, Ap
393	26	56.5	220	11	US-11-197-644-40	Sequence 40, Appl	466	26	56.5	258	9	US-10-512-184-26	Sequence 26, Appl
394	26	56.5	224	11	US-11-087-099-4273	Sequence 4273, Ap	467	26	56.5	259	11	US-11-057-923-6	Sequence 6, Appl
395	26	56.5	224	11	US-11-197-488-17	Sequence 17, Appl	468	26	56.5	259	11	US-11-072-512-2303	Sequence 2303, Ap
396	26	56.5	224	11	US-11-188-298-12007	Sequence 12007, A	469	26	56.5	264	11	US-11-264-096-2022	Sequence 2022, Ap
397	26	56.5	225	11	US-11-128-440-1	Sequence 1, Appl	470	26	56.5	265	9	US-10-506-454-1128	Sequence 1128, Ap
398	26	56.5	225	11	US-11-092-353-9	Sequence 9, Appl	471	26	56.5	267	9	US-10-841-956A-8	Sequence 8, Appl
399	26	56.5	225	11	US-11-128-937-9	Sequence 9, Appl	472	26	56.5	269	9	US-10-841-956A-5	Sequence 5, Appl
400	26	56.5	225	11	US-11-190-202-13	Sequence 13, Appl	473	26	56.5	270	9	US-10-841-956A-5	Sequence 5, Appl
401	26	56.5	226	11	US-11-087-099-561	Sequence 561, App	474	26	56.5	271	11	US-11-096-568A-8742	Sequence 8742, A
402	26	56.5	227	9	US-10-841-956A-17	Sequence 17, Appl	475	26	56.5	273	11	US-10-115-609-39	Sequence 39, Appl
403	26	56.5	227	11	US-11-008-727-14	Sequence 14, Appl	476	26	56.5	273	11	US-11-113-424-74	Sequence 74, Appl
404	26	56.5	227	11	US-11-104-111-5	Sequence 5, Appl	477	26	56.5	273	11	US-11-113-424-75	Sequence 75, Appl
405	26	56.5	227	11	US-11-201-825-67	Sequence 67, Appl	478	26	56.5	274	11	US-11-072-512-2191	Sequence 2191, Ap
406	26	56.5	228	9	US-10-841-956A-16	Sequence 16, Appl	479	26	56.5	276	11	US-11-029-003-18	Sequence 18, Appl
407	26	56.5	228	11	US-11-104-111-3	Sequence 3, Appl	480	26	56.5	280	11	US-11-248-702A-5	Sequence 5, Appl
408	26	56.5	228	11	US-11-104-111-4	Sequence 4, Appl	481	26	56.5	281	9	US-10-841-956A-7	Sequence 7, Appl
409	26	56.5	229	11	US-11-235-776A-30	Sequence 30, Appl	482	26	56.5	282	9	US-10-841-956A-6	Sequence 6, Appl
410	26	56.5	229	11	US-11-235-776A-31	Sequence 31, Appl	483	26	56.5	283	11	US-11-264-096-821	Sequence 821, App
411	26	56.5	231	11	US-11-128-440-16	Sequence 16, Appl	484	26	56.5	284	9	US-10-892-379-10	Sequence 10, Appl
412	26	56.5	231	11	US-11-128-440-17	Sequence 17, Appl	485	26	56.5	284	9	US-10-453-372-790	Sequence 790, App
413	26	56.5	232	9	US-10-636-320-4	Sequence 4, Appl	486	26	56.5	286	11	US-11-188-228-15609	Sequence 15609, A
414	26	56.5	232	11	US-10-948-053-1	Sequence 1, Appl	487	26	56.5	290	9	US-10-453-372-776	Sequence 776, App
415	26	56.5	232	11	US-11-227-340-7	Sequence 7, Appl	488	26	56.5	292	11	US-11-087-719-73	Sequence 73, Appl
416	26	56.5	232	11	US-11-201-825-66	Sequence 66, Appl	489	26	56.5	292	11	US-11-087-719-73	Sequence 75, Appl
417	26	56.5	232	11	US-11-201-585-5	Sequence 5, Appl	490	26	56.5	293	9	US-10-841-956A-9	Sequence 9, Appl
418	26	56.5	232	11	US-11-201-585-6	Sequence 6, Appl	491	26	56.5	296	9	US-10-954-468-9	Sequence 9, Appl
419	26	56.5	232	11	US-11-202-287-30	Sequence 30, Appl	492	26	56.5	299	11	US-10-467-657-4424	Sequence 4424, Ap
420	26	56.5	233	11	US-11-247-304-21	Sequence 21, Appl	493	26	56.5	300	9	US-11-188-228-15521	Sequence 15521, A
421	26	56.5	233	11	US-11-251-011-21	Sequence 21, Appl	494	26	56.5	309	11	US-10-862-109-9	Sequence 9, Appl
422	26	56.5	233	11	US-11-251-012-21	Sequence 21, Appl	495	26	56.5	302	9	US-10-453-372-780	Sequence 780, App
423	26	56.5	234	11	US-11-128-440-21	Sequence 21, Appl	496	26	56.5	302	9	US-10-453-372-782	Sequence 782, App
424	26	56.5	235	9	US-10-453-372-784	Sequence 784, App	497	26	56.5	302	9	US-10-453-372-788	Sequence 788, App
425	26	56.5	235	11	US-11-188-298-11473	Sequence 11473, A	498	26	56.5	302	9	US-10-453-372-792	Sequence 792, App
426	26	56.5	238	11	US-10-841-956A-20	Sequence 20, Appl	499	26	56.5	302	11	US-11-264-096-2151	Sequence 2151, Ap
427	26	56.5	238	11	US-11-029-003-4	Sequence 4, Appl	500	26	56.5	303	11	US-11-087-719-71	Sequence 71, Appl
428	26	56.5	241	11	US-11-188-298-19691	Sequence 19691, A	501	26	56.5	306	11	US-11-052-555A-259	Sequence 259, App
429	26	56.5	245	11	US-11-029-003-20	Sequence 20, Appl	502	26	56.5	306	11	US-11-188-228-1535	Sequence 3535, Ap
430	26	56.5	246	11	US-11-054-515-1980	Sequence 1980, Ap	503	26	56.5	306	11	US-11-188-228-1547	Sequence 14547, A
431	26	56.5	246	11	US-11-128-440-18	Sequence 18, Appl	504	26	56.5	306	11	US-11-123-241-12	Sequence 12, Appl
432	26	56.5	246	11	US-11-266-444-1980	Sequence 1980, Ap	505	26	56.5	307	11	US-11-096-666A-10143	Sequence 10143, A
433	26	56.5	247	9	US-10-935-005B-82	Sequence 82, Appl	506	26	56.5	308	11	US-11-096-568A-28741	Sequence 28741, A
434	26	56.5	247	9	US-10-935-005B-85	Sequence 85, Appl	507	26	56.5	309	9	US-10-453-372-778	Sequence 778, App
435	26	56.5	247	9	US-10-935-005B-87	Sequence 87, Appl	508	26	56.5	309	9	US-10-880-881-51	Sequence 51, Appl
436	26	56.5	247	9	US-10-935-005B-88	Sequence 88, Appl	509	26	56.5	309	9	US-10-862-109-7	Sequence 7, Appl
437	26	56.5	247	11	US-11-054-515-1257	Sequence 1257, Ap	510	26	56.5	310	11	US-11-096-568A-21631	Sequence 21631, A
438	26	56.5	247	11	US-11-266-444-1257	Sequence 1257, Ap	511	26	56.5	310	11	US-11-188-228-8248	Sequence 8248, Ap
439	26	56.5	248	11	US-11-128-440-1	Sequence 1, Appl	512	26	56.5	311	11	US-11-096-568A-21630	Sequence 21630, A
440	26	56.5	248	11	US-11-104-111-21	Sequence 21, Appl	513	26	56.5	312	9	US-10-873-528-69	Sequence 69, Appl
441	26	56.5	248	11	US-11-087-099-10319	Sequence 10319, A	514	26	56.5	317	11	US-11-045-004-284	Sequence 284, App
442	26	56.5	249	9	US-10-467-657-932	Sequence 932, Appl	515	26	56.5	318	11	US-11-045-004-356	Sequence 356, App
443	26	56.5	249	9	US-10-935-005B-83	Sequence 83, Appl	516	26	56.5	319	11	US-11-087-099-1884	Sequence 1984, Ap
444	26	56.5	249	9	US-10-935-005B-86	Sequence 86, Appl	517	26	56.5	320	10	US-11-183-218-50	Sequence 50, Appl
445	26	56.5	249	9	US-10-935-005B-89	Sequence 89, Appl	518	26	56.5	320	11	US-11-183-205-50	Sequence 50, Appl
446	26	56.5	249	11	US-11-113-424-30	Sequence 30, Appl	519	26	56.5	321	9	US-10-467-657-1710	Sequence 1710, Ap
447	26	56.5	250	9	US-10-821-234-1659	Sequence 1659, Ap	520	26	56.5	321	11	US-11-186-423-8	Sequence 8, Appl
448	26	56.5	250	11	US-11-128-440-20	Sequence 20, Appl	521	26	56.5	323	11	US-11-197-038-37	Sequence 37, Appl
449	26	56.5	250	11	US-11-242-294-35	Sequence 35, Appl	522	26	56.5	323	11	US-11-197-644-37	Sequence 37, Appl
450	26	56.5	251	9	US-10-935-005B-84	Sequence 84, Appl	523	26	56.5	324	11	US-11-197-644-36	Sequence 36, Appl
451	26	56.5	251	11	US-11-054-515-856	Sequence 856, App	524	26	56.5	324	11	US-11-197-644-36	Sequence 36, Appl
452	26	56.5	251	11	US-11-054-515-1232	Sequence 1232, Ap	525	26	56.5	325	11	US-11-188-298-9372	Sequence 9372, Ap
453	26	56.5	251	11	US-11-242-294-6	Sequence 6, Appl	526	26	56.5	326	9	US-10-999-866-36	Sequence 36, Appl
454	26	56.5	251	11	US-11-242-294-29	Sequence 29, Appl	527	26	56.5	326	9	US-10-988-207-24	Sequence 24, Appl
455	26	56.5	251	11	US-11-242-294-31	Sequence 31, Appl	528	26	56.5	326	9	US-10-493-909-22	Sequence 22, Appl
456	26	56.5	251	11	US-11-242-294-33	Sequence 33, Appl	529	26	56.5	326	9	US-10-935-005B-67	Sequence 67, Appl
457	26	56.5	251	11	US-11-242-294-37	Sequence 37, Appl	530	26	56.5	326	10	US-11-091-224A-36	Sequence 36, Appl
458	26	56.5	251	11	US-11-242-294-39	Sequence 39, Appl	531	26	56.5	326	11	US-11-144-248-28	Sequence 28, Appl
459	26	56.5	251	11	US-11-266-444-856	Sequence 856, App	532	26	56.5	326	11	US-11-061-821-36	Sequence 36, Appl



533	26	56.5	326	11	US-11-102-621-2	Sequence 2, Appl	606	26	56.5	327	11	US-11-061-821-38	Sequence 38, Appl
534	26	56.5	326	11	US-11-102-621-10	Sequence 10, Appl	607	26	56.5	327	11	US-11-102-621-114	Sequence 114, App
535	26	56.5	326	11	US-11-102-621-11	Sequence 11, Appl	608	26	56.5	327	11	US-11-102-621-116	Sequence 116, App
536	26	56.5	326	11	US-11-102-621-12	Sequence 12, Appl	609	26	56.5	327	11	US-11-102-621-117	Sequence 117, App
537	26	56.5	326	11	US-11-102-621-13	Sequence 13, Appl	610	26	56.5	327	11	US-11-124-620-4	Sequence 4, Appl
538	26	56.5	326	11	US-11-102-621-14	Sequence 14, Appl	611	26	56.5	327	11	US-11-233-683-4	Sequence 4, Appl
539	26	56.5	326	11	US-11-102-621-15	Sequence 15, Appl	612	26	56.5	328	9	US-10-512-184-63	Sequence 63, Appl
540	26	56.5	326	11	US-11-102-621-16	Sequence 16, Appl	613	26	56.5	328	9	US-10-880-881-47	Sequence 47, Appl
541	26	56.5	326	11	US-11-102-621-17	Sequence 17, Appl	614	26	56.5	328	9	US-10-988-207-23	Sequence 23, Appl
542	26	56.5	326	11	US-11-102-621-18	Sequence 18, Appl	615	26	56.5	329	11	US-11-122-622-100	Sequence 100, App
543	26	56.5	326	11	US-11-102-621-19	Sequence 19, Appl	616	26	56.5	329	11	US-11-186-422-4	Sequence 4, Appl
544	26	56.5	326	11	US-11-102-621-20	Sequence 20, Appl	617	26	56.5	329	11	US-11-149-309-17	Sequence 17, Appl
545	26	56.5	326	11	US-11-102-621-21	Sequence 21, Appl	618	26	56.5	329	11	US-11-190-202-14	Sequence 14, Appl
546	26	56.5	326	11	US-11-102-621-22	Sequence 22, Appl	619	26	56.5	329	11	US-11-190-202-16	Sequence 16, App
547	26	56.5	326	11	US-11-102-621-23	Sequence 23, Appl	620	26	56.5	329	11	US-11-155-843-128	Sequence 128, App
548	26	56.5	326	11	US-11-102-621-24	Sequence 24, Appl	621	26	56.5	330	11	US-11-155-843-141	Sequence 141, App
549	26	56.5	326	11	US-11-102-621-25	Sequence 25, Appl	622	26	56.5	330	9	US-10-686-183-6	Sequence 6, Appl
550	26	56.5	326	11	US-11-102-621-26	Sequence 26, Appl	623	26	56.5	330	9	US-10-493-909-20	Sequence 20, Appl
551	26	56.5	326	11	US-11-102-621-27	Sequence 27, Appl	624	26	56.5	330	9	US-10-982-440-68	Sequence 68, Appl
552	26	56.5	326	11	US-11-102-621-28	Sequence 28, Appl	625	26	56.5	330	10	US-11-219-563-136	Sequence 136, App
553	26	56.5	326	11	US-11-102-621-29	Sequence 29, Appl	626	26	56.5	330	10	US-11-221-902-25	Sequence 25, Appl
554	26	56.5	326	11	US-11-102-621-30	Sequence 30, Appl	627	26	56.5	330	10	US-11-221-902-85	Sequence 85, Appl
555	26	56.5	326	11	US-11-102-621-31	Sequence 31, Appl	628	26	56.5	330	10	US-11-221-902-86	Sequence 86, Appl
556	26	56.5	326	11	US-11-102-621-32	Sequence 32, Appl	629	26	56.5	330	10	US-11-221-902-87	Sequence 87, Appl
557	26	56.5	326	11	US-11-102-621-33	Sequence 33, Appl	630	26	56.5	330	10	US-11-221-902-88	Sequence 88, Appl
558	26	56.5	326	11	US-11-102-621-34	Sequence 34, Appl	631	26	56.5	330	10	US-11-221-902-89	Sequence 89, Appl
559	26	56.5	326	11	US-11-102-621-35	Sequence 35, Appl	632	26	56.5	330	11	US-11-022-289-11	Sequence 11, Appl
560	26	56.5	326	11	US-11-102-621-36	Sequence 36, Appl	633	26	56.5	330	11	US-11-022-289-11	Sequence 11, Appl
561	26	56.5	326	11	US-11-102-621-37	Sequence 37, Appl	634	26	56.5	330	11	US-11-075-351-1	Sequence 15, Appl
562	26	56.5	326	11	US-11-102-621-38	Sequence 38, Appl	635	26	56.5	330	11	US-11-165-141-15	Sequence 7, Appl
563	26	56.5	326	11	US-11-102-621-39	Sequence 39, Appl	636	26	56.5	330	11	US-11-102-621-3	Sequence 3, Appl
564	26	56.5	326	11	US-11-102-621-40	Sequence 40, Appl	637	26	56.5	330	11	US-11-102-621-7	Sequence 7, Appl
565	26	56.5	326	11	US-11-102-621-41	Sequence 41, Appl	638	26	56.5	330	11	US-11-102-621-67	Sequence 67, Appl
566	26	56.5	326	11	US-11-102-621-42	Sequence 42, Appl	639	26	56.5	330	11	US-11-102-621-68	Sequence 68, Appl
567	26	56.5	326	11	US-11-102-621-43	Sequence 43, Appl	640	26	56.5	330	11	US-11-102-621-69	Sequence 69, Appl
568	26	56.5	326	11	US-11-102-621-44	Sequence 44, Appl	641	26	56.5	330	11	US-11-102-621-70	Sequence 70, Appl
569	26	56.5	326	11	US-11-102-621-45	Sequence 45, Appl	642	26	56.5	330	11	US-11-102-621-71	Sequence 71, Appl
570	26	56.5	326	11	US-11-102-621-46	Sequence 46, Appl	643	26	56.5	330	11	US-11-102-621-75	Sequence 75, Appl
571	26	56.5	326	11	US-11-102-621-47	Sequence 47, Appl	644	26	56.5	330	11	US-11-102-621-76	Sequence 76, Appl
572	26	56.5	326	11	US-11-102-621-48	Sequence 48, Appl	645	26	56.5	330	11	US-11-005-726-164	Sequence 164, App
573	26	56.5	326	11	US-11-102-621-49	Sequence 49, Appl	646	26	56.5	330	11	US-11-124-620-1	Sequence 1, Appl
574	26	56.5	326	11	US-11-102-621-50	Sequence 50, Appl	647	26	56.5	330	11	US-11-233-683-1	Sequence 1, Appl
575	26	56.5	326	11	US-11-102-621-51	Sequence 51, Appl	648	26	56.5	330	11	US-11-801-825-55	Sequence 55, Appl
576	26	56.5	326	11	US-11-102-621-52	Sequence 52, Appl	649	26	56.5	330	11	US-11-218-813-136	Sequence 136, App
577	26	56.5	326	11	US-11-102-621-53	Sequence 53, Appl	650	26	56.5	330	11	US-11-188-298-18370	Sequence 8831, Ap
578	26	56.5	326	11	US-11-102-621-54	Sequence 54, Appl	651	26	56.5	331	11	US-11-188-298-8821	Sequence 62, Appl
579	26	56.5	326	11	US-11-102-621-55	Sequence 55, Appl	652	26	56.5	332	11	US-11-242-294-62	Sequence 98, Appl
580	26	56.5	326	11	US-11-102-621-56	Sequence 56, Appl	653	26	56.5	332	11	US-11-122-622-98	Sequence 21801, A
581	26	56.5	326	11	US-11-102-621-57	Sequence 57, Appl	654	26	56.5	333	11	US-11-188-298-21801	Sequence 35, Appl
582	26	56.5	326	11	US-11-102-621-58	Sequence 58, Appl	655	26	56.5	333	11	US-11-024-251-35	Sequence 35, Appl
583	26	56.5	326	11	US-11-102-621-59	Sequence 59, Appl	656	26	56.5	333	9	US-10-999-866-35	Sequence 35, Appl
584	26	56.5	326	11	US-11-102-621-60	Sequence 60, Appl	657	26	56.5	339	9	US-10-935-005B-66	Sequence 66, Appl
585	26	56.5	326	11	US-11-102-621-61	Sequence 61, Appl	658	26	56.5	339	10	US-11-091-234A-35	Sequence 35, Appl
586	26	56.5	326	11	US-11-102-621-62	Sequence 62, Appl	659	26	56.5	339	11	US-11-061-821-35	Sequence 35, Appl
587	26	56.5	326	11	US-11-102-621-63	Sequence 63, Appl	660	26	56.5	344	11	US-11-242-294-52	Sequence 52, Appl
588	26	56.5	326	11	US-11-102-621-64	Sequence 64, Appl	661	26	56.5	344	11	US-11-190-202-15	Sequence 15, Appl
589	26	56.5	326	11	US-11-102-621-65	Sequence 65, Appl	662	26	56.5	344	11	US-11-190-202-17	Sequence 17, Appl
590	26	56.5	326	11	US-11-102-621-66	Sequence 66, Appl	663	26	56.5	346	9	US-10-506-454-286	Sequence 286, App
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## ALIGNMENTS

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; Sequence 1659, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1659
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1659

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Best Local Similarity 100.0%; Pred. No. 0.0034;
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaccia, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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US-10-530-253-15
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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
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APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
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; PRIOR FILING DATE: 2002-10-08
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US-10-530-061-517
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RESULT 6
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; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
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FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19
```

```
Query Match      76.1%; Score 35; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 6.8;
Matches      7; Conservative      0; Mismatches      2; Indels      0; Gaps      0;
```

```
QY      1 LQDIETCV 9
      |||||
Db      25 LQDIETCV 33
```

```
RESULT 7
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20
```

```
Query Match      76.1%; Score 35; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 6.8;
Matches      6; Conservative      1; Mismatches      2; Indels      0; Gaps      0;
```

```
QY      1 LQDIETCV 9
      |||||
Db      25 LQDIETCV 33
```

```
RESULT 8
US-11-168-298-1612
; Sequence 1612, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/168,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1612
; LENGTH: 673
```

TYPE: PRT  
ORGANISM: Arabidopsis thaliana  
US-11-188-298-1612

Query Match 76.1%; Score 35; DB 11; Length 673;  
Best Local Similarity 62.5%; Pred. No. 31;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
DB 408 LNDVEVTC 415

RESULT 9  
US-11-087-099-4671  
Sequence 4671, Application US/11087099  
Publication No. US2006004196A1  
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21 (53450) B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 4671  
LENGTH: 390  
TYPE: PRT  
ORGANISM: Phlebia radiata  
US-11-087-099-4671

Query Match 73.9%; Score 34; DB 11; Length 390;  
Best Local Similarity 71.4%; Pred. No. 28;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETC 8  
DB 337 QDIETC 343

RESULT 10  
US-11-155-288-8  
Sequence 8, Application US/11155288  
Publication No. US20060008468A1  
GENERAL INFORMATION:  
APPLICANT: Chiang, Chih-Sheng  
APPLICANT: Simard, John J. L.  
TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED  
TITLE OF INVENTION: ANTIGENS IN DIAGNOSTICS FOR VARIOUS TYPES OF CANCERS  
FILE REFERENCE: MANAK.050A  
CURRENT APPLICATION NUMBER: US/11/155,288  
CURRENT FILING DATE: 2005-06-17  
PRIOR APPLICATION NUMBER: 60/580,969  
PRIOR FILING DATE: 2004-06-17  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 8  
LENGTH: 509  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-155-288-8

Query Match 73.9%; Score 34; DB 11; Length 509;  
Best Local Similarity 50.0%; Pred. No. 37;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LODIETC 8  
DB 235 IDLEVTC 242

RESULT 11  
US-10-329-258-27  
Sequence 27, Application US/10329258

Publication No. US20060024233A1  
GENERAL INFORMATION:  
APPLICANT: MUELLER, SABINE  
APPLICANT: GONZALEZ-ZOLUETA, MIRELLA  
APPLICANT: FOEHR, ERIK  
APPLICANT: CHIN, DANIEL J.  
TITLE OF INVENTION: USE OF BIOMOLECULAR TARGETS IN THE TREATMENT AND VISUALIZATION OF  
FILE REFERENCE: AGYT-008052  
CURRENT APPLICATION NUMBER: US/10/329,258  
CURRENT FILING DATE: 2002-12-23  
PRIOR APPLICATION NUMBER: 60/343,422  
PRIOR FILING DATE: 2001-12-27  
NUMBER OF SEQ ID NOS: 29  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 27  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-329-258-27

Query Match 71.7%; Score 33; DB 9; Length 366;  
Best Local Similarity 75.0%; Pred. No. 41;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
DB 124 LODIETC 131

RESULT 12  
US-11-000-463-410  
Sequence 410, Application US/11000463  
Publication No. US2005026423A1  
GENERAL INFORMATION:  
APPLICANT: Tang, Y Tom  
APPLICANT: Liu, Chenghua  
APPLICANT: Asundi, Vinod  
APPLICANT: Chen, Rui-hong  
APPLICANT: Qian, Xiaohong B.  
APPLICANT: Wang, Zhilwei  
APPLICANT: Wehrman, Tom  
APPLICANT: Zhang, Jie  
APPLICANT: Zhou, Ping  
APPLICANT: Cao, Yi-Cheng  
APPLICANT: Drmanac, Radoje T.  
TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides  
FILE REFERENCE: 785CIP4CN  
CURRENT APPLICATION NUMBER: US/11/000,463  
CURRENT FILING DATE: 2004-11-29  
PRIOR APPLICATION NUMBER: 10/291,265  
PRIOR FILING DATE: 2002-11-08  
PRIOR APPLICATION NUMBER: PCT/US01/02623  
PRIOR FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: 09/922,279  
PRIOR FILING DATE: 2001-08-03  
PRIOR APPLICATION NUMBER: 09/491,404  
PRIOR FILING DATE: 2000-01-25  
PRIOR APPLICATION NUMBER: 09/617,746  
PRIOR FILING DATE: 2000-07-17  
PRIOR APPLICATION NUMBER: 09/631,451  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: 09/633,870  
PRIOR FILING DATE: 2000-09-15  
NUMBER OF SEQ ID NOS: 944  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 410  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-000-463-410

Query Match 71.7%; Score 33; DB 11; Length 366;  
Best Local Similarity 75.0%; Pred. No. 41;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 124 LODLENTC 131

## RESULT 13

US-11-000-463-882

; Sequence 882, Application US/11000463  
; Publication No. US2005026423A1

; GENERAL INFORMATION:

; APPLICANT: Tang, Y Tom

; APPLICANT: Liu, Chenghua

; APPLICANT: Asundi, Vinod

; APPLICANT: Chen, Rui-hong

; APPLICANT: Qian, Xiaohong B.

; APPLICANT: Wang, Zhiwei

; APPLICANT: Wehrman, Tom

; APPLICANT: Zhang, Jie

; APPLICANT: Zhou, Ping

; APPLICANT: Cao, Yi-Cheng

; APPLICANT: Drmanac, Radoje T.

; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides

; FILE REFERENCE: 785CIP4CN

; CURRENT APPLICATION NUMBER: US/11/000,463

; PRIOR FILING DATE: 2004-11-29

; PRIOR FILING DATE: 2002-11-08

; PRIOR FILING DATE: 2002-11-08

; PRIOR FILING DATE: 2001-01-25

; PRIOR FILING DATE: 2001-01-25

; PRIOR FILING DATE: 2001-08-03

; PRIOR FILING DATE: 2001-08-03

; PRIOR FILING DATE: 2000-01-25

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

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; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

; PRIOR FILING DATE: 2000-07-17

TYPE: PRT

ORGANISM: Clostridium tetani E88

US-11-188-298-2647

Query Match

Best Local Similarity 71.7%; Score 33; DB 11; Length 633;

Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 167 IEDIDVTC 174

## RESULT 15

US-11-096-568A-22480

; Sequence 22480, Application US/11096568A

; Publication No. US20060048240A1

; GENERAL INFORMATION:

; APPLICANT: Alexandrov, Nickolai et al.

; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

; FILE REFERENCE: 2750-1592PUS2

; CURRENT APPLICATION NUMBER: US/11/096,568A

; PRIOR FILING DATE: 2005-04-01

; NUMBER OF SEQ ID NOS: 34471

; SEQ ID NO 22480

; LENGTH: 210

; TYPE: PRT

; ORGANISM: Zea mays subsp. mays

; NAME/KEY: misc. feature

; LOCATION: (1)..(210)

; OTHER INFORMATION: Ceres Seq. ID no. 12408970

US-11-096-568A-22480

Query Match

Best Local Similarity 69.6%; Score 32; DB 11; Length 210;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 156 LRDIETC 163

## RESULT 16

US-11-096-568A-22479

; Sequence 22479, Application US/11096568A

; Publication No. US20060048240A1

; GENERAL INFORMATION:

; APPLICANT: Alexandrov, Nickolai et al.

; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

; FILE REFERENCE: 2750-1592PUS2

; CURRENT APPLICATION NUMBER: US/11/096,568A

; PRIOR FILING DATE: 2005-04-01

; NUMBER OF SEQ ID NOS: 34471

; SEQ ID NO 22479

; LENGTH: 243

; TYPE: PRT

; ORGANISM: Zea mays subsp. mays

; NAME/KEY: misc. feature

; LOCATION: (1)..(243)

; OTHER INFORMATION: Ceres Seq. ID no. 12408969

US-11-096-568A-22479

Query Match

Best Local Similarity 69.6%; Score 32; DB 11; Length 243;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LODIETC 8  
|||:|

Db 189 LRDIETC 196

```
RESULT 17
US-11-096-568A-22478
; Sequence 22478, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 22478
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(304)
; OTHER INFORMATION: Ceres Seq. ID no. 12408968
US-11-096-568A-22478

Query Match
Best Local Similarity 69.6%; Score 32; DB 11; Length 304;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LQDIETC 8
Db 250 LRDIEILC 257

RESULT 18
US-11-096-568A-19986
; Sequence 19986, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19986
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(306)
; OTHER INFORMATION: Ceres Seq. ID no. 12376375
US-11-096-568A-19986

Query Match
Best Local Similarity 69.6%; Score 32; DB 11; Length 306;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LQDIETC 8
Db 213 LRDIEILC 220

RESULT 19
US-11-096-568A-19985
; Sequence 19985, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
```

```
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19985
; LENGTH: 307
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(307)
; OTHER INFORMATION: Ceres Seq. ID no. 12376374
US-11-096-568A-19985

Query Match
Best Local Similarity 69.6%; Score 32; DB 11; Length 307;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LQDIETC 8
Db 214 LRDIEILC 221

RESULT 20
US-11-096-568A-19984
; Sequence 19984, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 19984
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(314)
; OTHER INFORMATION: Ceres Seq. ID no. 12376373
US-11-096-568A-19984

Query Match
Best Local Similarity 69.6%; Score 32; DB 11; Length 314;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LQDIETC 8
Db 221 LRDIEILC 228

RESULT 21
US-11-096-568A-5396
; Sequence 5396, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5396
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(322)
; OTHER INFORMATION: Ceres Seq. ID no. 14308662
```



US-11-096-568A-5396

Query Match  
 Best Local Similarity 69.6%; Score 32; DB 11; Length 322;  
 Best Local Similarity 75.0%; Pred. No. 58;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
 |||||  
 Db 214 LRDIETLC 221

RESULT 22

US-11-096-568A-5395  
 ; Sequence 5395, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nikolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592PUS2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; CURRENT FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 5395  
 ; LENGTH: 329  
 ; TYPE: PRT  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)..(329)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 14308681  
 US-11-096-568A-5395

Query Match  
 Best Local Similarity 69.6%; Score 32; DB 11; Length 329;  
 Best Local Similarity 75.0%; Pred. No. 59;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
 |||||  
 Db 221 LRDIETLC 228

RESULT 23

US-11-096-568A-5394  
 ; Sequence 5394, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nikolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592PUS2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; CURRENT FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 5394  
 ; LENGTH: 339  
 ; TYPE: PRT  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)..(339)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 14308680  
 US-11-096-568A-5394

Query Match  
 Best Local Similarity 69.6%; Score 32; DB 11; Length 339;  
 Best Local Similarity 75.0%; Pred. No. 61;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETC 8  
 |||||  
 Db 231 LRDIETLC 238

RESULT 24

US-10-530-253-25  
 ; Sequence 25, Application US/10530253  
 ; Publication No. US20060014926A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Casaretti, Maria C.  
 ; APPLICANT: Smith, Larry  
 ; APPLICANT: Jeffrey K. Pullen  
 ; APPLICANT: Susan P. McElhinney  
 ; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
 ; FILE REFERENCE: 00630/100M137-US2  
 ; CURRENT APPLICATION NUMBER: US/10/530,253  
 ; CURRENT FILING DATE: 2005-04-04  
 ; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
 ; PRIOR FILING DATE: 2003-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/415,929  
 ; PRIOR FILING DATE: 2002-10-03  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 25  
 ; LENGTH: 160  
 ; TYPE: PRT  
 ; ORGANISM: Human papillomavirus type 59  
 US-10-530-253-25

Query Match  
 Best Local Similarity 67.4%; Score 31; DB 9; Length 160;  
 Best Local Similarity 66.7%; Pred. No. 44;  
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
 |||||  
 Db 25 LHDIRINCV 33

RESULT 25

US-11-188-298-17365  
 ; Sequence 17365, Application US/11188298  
 ; Publication No. US20060075522A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Abad, Mark S. et al.  
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 ; FILE REFERENCE: 38-21(53452)B  
 ; CURRENT APPLICATION NUMBER: US/11/188,298  
 ; CURRENT FILING DATE: 2005-07-22  
 ; PRIOR APPLICATION NUMBER: 60/592,978  
 ; PRIOR FILING DATE: 2004-07-31  
 ; NUMBER OF SEQ ID NOS: 22569  
 ; SEQ ID NO 17365  
 ; LENGTH: 285  
 ; TYPE: PRT  
 ; ORGANISM: Petunia x hybrida  
 US-11-188-298-17365

Query Match  
 Best Local Similarity 67.4%; Score 31; DB 11; Length 285;  
 Best Local Similarity 62.5%; Pred. No. 81;  
 Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 ODIVQTCV 9  
 |||||  
 Db 84 QDVQTCV 91

RESULT 26

US-11-188-298-19258  
 ; Sequence 19258, Application US/11188298  
 ; Publication No. US20060075522A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Abad, Mark S. et al.  
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
 ; FILE REFERENCE: 38-21(53452)B  
 ; CURRENT APPLICATION NUMBER: US/11/188,298  
 ; CURRENT FILING DATE: 2005-07-22  
 ; PRIOR APPLICATION NUMBER: 60/592,978

PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 19258  
LENGTH: 328  
TYPE: PRT  
ORGANISM: Neisseria meningitidis  
US-11-188-298-19258

Query Match 67.4%; Score 31; DB 11; Length 328;  
Best Local Similarity 44.4%; Pred. No. 94;  
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETCV 9  
Db 283 LQDLQIACL 291

RESULT 27  
US-11-096-568A-10573  
Sequence 10573, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nickolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 10573  
LENGTH: 331  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(331)  
OTHER INFORMATION: Ceres Seg. ID no. 13596495  
US-11-096-568A-10573

Query Match 67.4%; Score 31; DB 11; Length 331;  
Best Local Similarity 62.5%; Pred. No. 95;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETC 8  
Db 208 LRDEILC 215

RESULT 28  
US-11-096-568A-10572  
Sequence 10572, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nickolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 10572  
LENGTH: 338  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(338)  
OTHER INFORMATION: Ceres Seg. ID no. 13596494  
US-11-096-568A-10572

Query Match 67.4%; Score 31; DB 11; Length 338;  
Best Local Similarity 62.5%; Pred. No. 97;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETC 8  
Db 215 LRDEILC 222

RESULT 29  
US-11-096-568A-10571  
Sequence 10571, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nickolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 10571  
LENGTH: 381  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(381)  
OTHER INFORMATION: Ceres Seg. ID no. 13596493  
US-11-096-568A-10571

Query Match 67.4%; Score 31; DB 11; Length 381;  
Best Local Similarity 62.5%; Pred. No. 1,1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LQDIETC 8  
Db 258 LRDEILC 265

RESULT 30  
US-11-087-099-1194  
Sequence 1194, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 1194  
LENGTH: 387  
TYPE: PRT  
ORGANISM: Ceriophopsis subvermispora  
US-11-087-099-1194

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 1,1e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QDIETC 8  
Db 338 QDLQILC 344

RESULT 31  
US-11-087-099-9326  
Sequence 9326, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22

NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 9326  
LENGTH: 387  
TYPE: PRT  
ORGANISM: Ceriporiopsis subvermisporea  
US-11-087-099-9326

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 1.1e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETIC 8  
DB 338 QDIQLTC 344

RESULT 32  
US-11-087-099-10451  
Sequence 10451, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B BP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 10451  
LENGTH: 387  
TYPE: PRT  
ORGANISM: Ceriporiopsis subvermisporea  
US-11-087-099-10451

Query Match 67.4%; Score 31; DB 11; Length 387;  
Best Local Similarity 57.1%; Pred. No. 1.1e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETIC 8  
DB 338 QDIQLTC 344

RESULT 33  
US-10-506-454-444  
Sequence 444, Application US/10506454  
Publication No. US20060068386A1  
GENERAL INFORMATION:  
APPLICANT: Slesarev, Alexi I  
APPLICANT: Mezhevaya, Katja V  
APPLICANT: Polushin, Nikolai N  
APPLICANT: Shcherbina, Olga V  
APPLICANT: Shakhova, Vera V  
APPLICANT: Malykh, Andrei G  
APPLICANT: Kozayavkin, Sergei A  
TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens  
TITLE OF INVENTION: and Methods of Use Thereof  
FILE REFERENCE: FID001  
CURRENT APPLICATION NUMBER: US/10/506,454  
CURRENT FILING DATE: 2004-08-31  
PRIOR APPLICATION NUMBER: PCT/US03/06664  
PRIOR FILING DATE: 2003-03-04  
PRIOR APPLICATION NUMBER: 60/361,742  
PRIOR FILING DATE: 2002-03-04  
NUMBER OF SEQ ID NOS: 1722  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 444  
LENGTH: 452  
TYPE: PRT  
ORGANISM: Methanopyrus kandleri  
US-10-506-454-444

Query Match 67.4%; Score 31; DB 9; Length 452;

Best Local Similarity 71.4%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIETICV 9  
DB 281 EIELTCV 287

RESULT 34  
US-10-517-939-286  
Sequence 286, Application US/10517939  
Publication No. US20060003433A1  
GENERAL INFORMATION:  
APPLICANT: Steer, Brian  
APPLICANT: Callen, Walter  
APPLICANT: Healey, Shaun  
APPLICANT: Hazlewood, Geoff  
APPLICANT: Wu, Di  
APPLICANT: Blum, David  
APPLICANT: Beteghalian, Alireza  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING THEM  
TITLE OF INVENTION: AND METHODS FOR MAKING AND USING THEM  
FILE REFERENCE: 564462007901  
CURRENT APPLICATION NUMBER: US/10/517,939  
CURRENT FILING DATE: 2004-12-13  
PRIOR APPLICATION NUMBER: PCT/US03/19153  
PRIOR FILING DATE: 2003-06-16  
PRIOR APPLICATION NUMBER: 60/389,299  
PRIOR FILING DATE: 2002-06-14  
NUMBER OF SEQ ID NOS: 380  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 286  
LENGTH: 522  
TYPE: PRT  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: Obtained from an environmental sample.  
US-10-517-939-286

Query Match 67.4%; Score 31; DB 9; Length 522;  
Best Local Similarity 50.0%; Pred. No. 1.5e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETICV 9  
DB 208 KDVELSCV 215

RESULT 35  
US-10-915-002-335  
Sequence 335, Application US/10915002  
Publication No. US20060078950A1  
GENERAL INFORMATION:  
APPLICANT: Prognulke-Fox, Ann  
APPLICANT: Hillman, Jeffrey D.  
APPLICANT: Handfield, Martin  
TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALS VIRULENCE POLYNUCLEOTIDE  
TITLE OF INVENTION: USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, AND  
TITLE OF INVENTION: PERIODONTAL DISEASES  
FILE REFERENCE: 02-042  
CURRENT APPLICATION NUMBER: US/10/915,002  
CURRENT FILING DATE: 2004-08-10  
NUMBER OF SEQ ID NOS: 354  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 335  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Porphyromonas gingivalis  
US-10-915-002-335

Query Match 67.4%; Score 31; DB 9; Length 618;  
Best Local Similarity 66.7%; Pred. No. 1.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
Db 129 LKDIETAV 137

RESULT 36  
US-11-079-463-5820  
; Sequence 5820, Application US/11079463  
; Publication No. US20060073161A1  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDS FOR  
; FILE REFERENCE: PAT00-03DIY2  
; CURRENT APPLICATION NUMBER: US/11/079,463  
; CURRENT FILING DATE: 2005-03-14  
; PRIOR APPLICATION NUMBER: US 60/128,705  
; PRIOR FILING DATE: 1999-04-09  
; PRIOR APPLICATION NUMBER: US 09/540,209  
; PRIOR FILING DATE: 2000-04-04  
; NUMBER OF SEQ ID NOS: 10444  
; SEQ ID NO 5820  
; LENGTH: 1326  
; TYPE: PRT  
; ORGANISM: B.fragilis  
US-11-079-463-5820

Query Match 67.4%; Score 31; DB 11; Length 1326;  
Best Local Similarity 50.0%; Pred. No. 4e+02;  
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 2 QDIETCV 9  
Db 73 RNIEVTCT 80

RESULT 37  
US-10-995-951A-28  
; Sequence 28, Application US/10995951A  
; Publication No. US20050245732A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, A. et al.  
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Express  
; FILE REFERENCE: 1096.021B  
; CURRENT APPLICATION NUMBER: US/10/995,951A  
; CURRENT FILING DATE: 2004-11-23  
; PRIOR APPLICATION NUMBER: PCT/CA02/01807  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: PCT/CA02/00740  
; PRIOR FILING DATE: 2002-05-23  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 28  
; LENGTH: 143  
; TYPE: PRT  
; ORGANISM: rhizobium etli  
US-10-995-951A-28

Query Match 65.2%; Score 30; DB 9; Length 143;  
Best Local Similarity 55.6%; Pred. No. 63;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
Db 72 VQDEQITCL 80

RESULT 38  
US-10-995-951A-30  
; Sequence 30, Application US/10995951A  
; Publication No. US20050245732A1

; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, A. et al.  
; TITLE OF INVENTION: A Repressor-Mediated Regulation System for Control of Gene Express  
; FILE REFERENCE: 1096.021B  
; CURRENT APPLICATION NUMBER: US/10/995,951A  
; CURRENT FILING DATE: 2004-11-23  
; PRIOR APPLICATION NUMBER: PCT/CA02/01807  
; PRIOR FILING DATE: 2002-11-21  
; PRIOR APPLICATION NUMBER: PCT/CA02/00740  
; PRIOR FILING DATE: 2002-05-23  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 30  
; LENGTH: 143  
; TYPE: PRT  
; ORGANISM: rhizobium etli  
US-10-995-951A-30

Query Match 65.2%; Score 30; DB 9; Length 143;  
Best Local Similarity 55.6%; Pred. No. 63;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
Db 72 VQDDQITCL 80

RESULT 39  
US-11-067-425A-63  
; Sequence 63, Application US/11067425A  
; Publication No. US20050278809A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, Abdelali  
; APPLICANT: Lydiat, Derek J.  
; APPLICANT: Gao, Ming-Jun  
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTORS  
; FILE REFERENCE: 270.78US11  
; CURRENT APPLICATION NUMBER: US/11/067,425A  
; CURRENT FILING DATE: 2005-02-22  
; PRIOR APPLICATION NUMBER: US 10/516,753  
; PRIOR FILING DATE: 2004-12-03  
; PRIOR APPLICATION NUMBER: PCT/CA03/00822  
; PRIOR FILING DATE: 2003-06-06  
; PRIOR APPLICATION NUMBER: US 60/387,088  
; PRIOR FILING DATE: 2002-06-06  
; NUMBER OF SEQ ID NOS: 108  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 63  
; LENGTH: 143  
; TYPE: PRT  
; ORGANISM: Rhizobium etli  
US-11-067-425A-63

Query Match 65.2%; Score 30; DB 11; Length 143;  
Best Local Similarity 55.6%; Pred. No. 63;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIETCV 9  
Db 72 VQDEQITCL 80

RESULT 40  
US-11-067-425A-65  
; Sequence 65, Application US/11067425A  
; Publication No. US20050278809A1  
; GENERAL INFORMATION:  
; APPLICANT: Hammoufa, Abdelali  
; APPLICANT: Lydiat, Derek J.  
; APPLICANT: Gao, Ming-Jun  
; TITLE OF INVENTION: REGULATION OF GENE EXPRESSION USING CHROMATIN REMODELLING FACTORS  
; FILE REFERENCE: 270.78US11

```

; CURRENT APPLICATION NUMBER: US/11/067,425A
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: US 10/516,753
; PRIOR FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: PCT/CA03/00832
; PRIOR FILING DATE: 2003-06-06
; PRIOR APPLICATION NUMBER: US 60/387,088
; PRIOR FILING DATE: 2002-06-06
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Rhizobium meliloti
US-11-067-425A-65

Query Match
Best Local Similarity 65.2%; Score 30; DB 11; Length 143;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIERTCV 9
Db 72 VQDDQITCL 80

RESULT 41
US-11-079-463-7852
; Sequence 7852, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7852
; LENGTH: 185
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-7852

Query Match
Best Local Similarity 65.2%; Score 30; DB 11; Length 185;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LODIERTCV 9
Db 129 LKEIERTCI 137

RESULT 42
US-11-087-099-5363
; Sequence 5363, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abbad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5363
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Rhodobacter sphaeroides
US-11-087-099-5363
```

```

Query Match
Best Local Similarity 65.2%; Score 30; DB 11; Length 248;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 QDIERTCV 9
Db 176 QDIANVCV 183

RESULT 43
US-11-129-143-96
; Sequence 96, Application US/11129143
; Publication No. US20050266518A1
; GENERAL INFORMATION:
; APPLICANT: BERRY, Alan
; APPLICANT: BREITZEL, Werner
; APPLICANT: HOMBEIN, Markus
; APPLICANT: LOPEZ-ULIBARRI, Rual
; APPLICANT: MAYER, Anne F.
; APPLICANT: YELISEEV, Alexei A.
; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION
; FILE REFERENCE: C38435/121966
; CURRENT APPLICATION NUMBER: US/11/129,143
; CURRENT FILING DATE: 2005-05-13
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 96
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Streptococcus pyogenes
US-11-129-143-96

Query Match
Best Local Similarity 65.2%; Score 30; DB 11; Length 292;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIERTC 8
Db 33 LTDIEVVC 40

RESULT 44
US-11-188-298-10173
; Sequence 10173, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abbad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10173
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Methanosarcina acetivorans C2A
US-11-188-298-10173

Query Match
Best Local Similarity 65.2%; Score 30; DB 11; Length 342;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 LODIERTCV 9
Db 111 LGDVERVCV 119

RESULT 45
US-11-188-298-21203
; Sequence 21203, Application US/11188298
; Publication No. US20060075522A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 21203
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Methanosarcina mazei Goel
US-11-188-298-21203

```

```

Query Match          65.2%; Score 30; DB 11; Length 342;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 QDIEITC 9
Db      111 LGDVEWVCV 119

```

```

RESULT 46
US-11-087-099-1029
; Sequence 1029, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1029
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Phanerochaete sordida
US-11-087-099-1029

```

```

Query Match          65.2%; Score 30; DB 11; Length 377;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 QDIEITC 8
Db      334 KDLELTC 340

```

```

RESULT 47
US-11-087-099-8872
; Sequence 8872, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8872
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-8872

```

```

Query Match          65.2%; Score 30; DB 11; Length 378;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 QDIEITC 8
Db      334 KDLELTC 340

```

```

Db      334 QDLELSC 340

RESULT 48
US-11-087-099-11183
; Sequence 11183, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11183
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-11183

```

```

Query Match          65.2%; Score 30; DB 11; Length 378;
Best Local Similarity 57.1%; Pred. No. 1.7e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 QDIEITC 8
Db      334 QDLELSC 340

```

```

RESULT 49
US-11-087-099-3689
; Sequence 3689, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 3689
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-3689

```

```

Query Match          65.2%; Score 30; DB 11; Length 380;
Best Local Similarity 57.1%; Pred. No. 1.8e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 QDIEITC 8
Db      336 QDLELSC 342

```

```

RESULT 50
US-11-087-099-12203
; Sequence 12203, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 12203
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Phanerochaete chrysosporium
US-11-087-099-12203

```

```

Query Match          65.2%; Score 30; DB 11; Length 382;

```

Best Local Similarity 57.1%, Pred. No. 1.8e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Oy 2 QDIRITC 8  
||:|:  
Db 338 QDLRLSC 344

Search completed: May 5, 2006, 07:56:36  
Job time : 9.4 secs

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## OM protein - protein search, using SW model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
(without alignments)  
35.602 Million cell updates/sec

Title: US-08-170-344-24  
Perfect score: 53  
Sequence: 1 BITCYCKR 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued\_Patents\_AA:\*

- 1: /cgn2\_6/prodata/1/1aa/5-COMB.pep:\*
- 2: /cgn2\_6/prodata/1/1aa/6-COMB.pep:\*
- 3: /cgn2\_6/prodata/1/1aa/H-COMB.pep:\*
- 4: /cgn2\_6/prodata/1/1aa/PCITUS-COMB.pep:\*
- 5: /cgn2\_6/prodata/1/1aa/RE-COMB.pep:\*
- 6: /cgn2\_6/prodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	100.0	32	1	US-08-466-285-2
2	53	100.0	32	2	US-08-164-768-2
3	53	100.0	158	1	US-08-247-904B-10
4	53	100.0	158	2	US-08-767-942A-19
5	53	100.0	271	1	US-08-117-083-14
6	53	100.0	278	2	US-09-485-885-21
7	53	100.0	383	2	US-09-485-885-23
8	48	90.6	15	2	US-08-159-339A-1176
9	40	75.5	134	2	US-09-248-796A-19660
10	39	73.6	290	2	US-09-583-110-4329
11	39	73.6	290	2	US-09-769-787-153
12	39	73.6	305	2	US-09-107-433-2649
13	37	69.8	358	2	US-09-270-767-61572
14	36	67.9	368	2	US-09-000-094-20
15	36	67.9	368	2	US-10-011-749-20
16	36	67.9	375	2	US-09-000-094-22
17	36	67.9	375	2	US-10-011-749-22
18	36	67.9	465	2	US-09-000-094-24
19	36	67.9	465	2	US-10-011-749-24
20	36	67.9	1587	2	US-09-000-094-46
21	36	67.9	1587	2	US-10-011-749-46
22	36	67.9	3730	2	US-09-949-016-9908
23	35	66.0	9	2	US-08-159-339A-570
24	35	66.0	10	2	US-08-159-339A-573
25	35	66.0	20	2	US-08-934-915-160
26	35	66.0	30	2	US-09-980-523A-4
27	35	66.0	151	2	US-09-701-080C-18

28	35	66.0	158	2	US-09-980-523A-2	Sequence 2, Appli
29	35	66.0	162	1	US-08-316-239B-3	Sequence 3, Appli
30	35	66.0	162	1	US-08-316-239B-4	Sequence 4, Appli
31	35	66.0	172	2	US-08-860-165-14	Sequence 14, Appli
32	35	66.0	172	2	US-09-359-382-14	Sequence 14, Appli
33	35	66.0	182	1	US-08-117-083-10	Sequence 10, Appli
34	35	66.0	189	2	US-09-270-767-58555	Sequence 58555, A
35	35	66.0	243	2	US-09-462-993-1	Sequence 1, Appli
36	35	66.0	262	2	US-09-270-767-32820	Sequence 32820, A
37	35	66.0	266	2	US-08-860-165-10	Sequence 10, Appli
38	35	66.0	266	2	US-09-359-382-10	Sequence 10, Appli
39	35	66.0	266	2	US-09-367-309A-1	Sequence 1, Appli
40	35	66.0	273	2	US-09-485-885-4	Sequence 40146, A
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43	35	66.0	292	2	US-09-485-885-10	Sequence 43213, A
44	35	66.0	352	2	US-09-270-767-43213	Sequence 6, Appli
45	35	66.0	371	2	US-09-485-885-6	Sequence 14, Appli
46	35	66.0	390	2	US-09-485-885-14	Sequence 27, Appli
47	35	66.0	1112	2	US-09-717-364A-27	Sequence 86, Appli
48	34	64.2	10	2	US-08-159-339A-86	Sequence 575, App
49	34	64.2	10	2	US-08-159-339A-575	Sequence 94, Appli
50	34	64.2	25	2	US-09-288-143-94	Sequence 27, Appli
51	34	64.2	169	2	US-09-540-236-2860	Sequence 2860, Ap
52	34	64.2	280	2	US-09-270-767-32482	Sequence 32482, A
53	34	64.2	344	2	US-09-134-000C-5935	Sequence 5935, Ap
54	34	64.2	344	2	US-09-270-767-62069	Sequence 62069, A
55	34	64.2	369	2	US-09-270-767-46483	Sequence 46483, A
56	34	64.2	433	2	US-10-104-047-3033	Sequence 3033, Ap
57	34	64.2	462	2	US-09-252-991A-18304	Sequence 18304, A
58	34	64.2	554	2	US-09-540-236-2663	Sequence 2663, Ap
59	34	64.2	572	2	US-09-648-004-8	Sequence 8, Appli
60	34	64.2	572	2	US-10-272-419-8	Sequence 8, Appli
61	34	64.2	612	2	US-09-538-092-1349	Sequence 1349, Ap
62	34	64.2	622	2	US-09-328-352-7970	Sequence 7970, Ap
63	34	64.2	1380	2	US-09-949-016-11688	Sequence 11688, A
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66	33	62.3	45	2	US-08-975-080-12	Sequence 12, Appli
67	33	62.3	45	2	US-10-138-618-11	Sequence 11, Appli
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69	33	62.3	45	2	US-09-690-825-11	Sequence 11, Appli
70	33	62.3	45	2	US-09-690-825-12	Sequence 12, Appli
71	33	62.3	56	1	US-08-691-814B-24	Sequence 24, Appli
72	33	62.3	59	1	US-08-657-759-4	Sequence 4, Appli
73	33	62.3	60	2	US-09-270-767-58063	Sequence 58063, A
74	33	62.3	61	2	US-09-107-532A-5570	Sequence 5570, Ap
75	33	62.3	67	1	US-08-511-485-11	Sequence 11, Appli
76	33	62.3	67	1	US-08-511-485-14	Sequence 14, Appli
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78	33	62.3	67	2	US-09-201-936-14	Sequence 14, Appli
79	33	62.3	67	2	US-09-011-356-11	Sequence 11, Appli
80	33	62.3	67	2	US-09-011-356-14	Sequence 14, Appli
81	33	62.3	67	2	US-09-201-932-11	Sequence 11, Appli
82	33	62.3	67	2	US-09-201-932-14	Sequence 14, Appli
83	33	62.3	88	2	US-09-248-796A-25071	Sequence 25071, A
84	33	62.3	105	2	US-09-732-210-1058	Sequence 1058, Ap
85	33	62.3	134	2	US-09-270-767-44989	Sequence 44989, A
86	33	62.3	137	2	US-09-270-767-41265	Sequence 41265, A
87	33	62.3	137	2	US-09-270-767-56481	Sequence 56481, A
88	33	62.3	137	2	US-08-813-323C-8	Sequence 8, Appli
89	33	62.3	135	2	US-09-711-164-351	Sequence 351, App
90	33	62.3	236	2	US-09-393-171-5	Sequence 5, Appli
91	33	62.3	242	2	US-09-489-039A-11950	Sequence 11950, A
92	33	62.3	268	2	US-08-836-134-22	Sequence 22, Appli
93	33	62.3	268	2	US-09-493-784-22	Sequence 22, Appli
94	33	62.3	275	1	US-08-511-485-12	Sequence 12, Appli
95	33	62.3	275	2	US-08-836-134-21	Sequence 21, Appli
96	33	62.3	275	2	US-09-493-784-21	Sequence 21, Appli
97	33	62.3	275	2	US-09-201-936-12	Sequence 12, Appli
98	33	62.3	275	2	US-09-011-356-12	Sequence 12, Appli
99	33	62.3	275	2	US-09-201-932-12	Sequence 12, Appli
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102	33	62.3	438	2	US-09-950-902-2	Sequence 2, Appl	175	32	60.4	1007	2	US-10-144-198-36	Sequence 36, Appl
103	33	62.3	459	2	US-09-605-042A-41	Sequence 41, Appl	176	32	60.4	1041	2	US-10-144-198-14	Sequence 14, Appl
104	33	62.3	504	2	US-09-270-767-35938	Sequence 35938, A	177	32	60.4	1068	2	US-09-248-796A-16119	Sequence 16119, A
105	33	62.3	504	2	US-09-270-767-35938	Sequence 2, Appl	178	32	60.4	1572	2	US-09-562-702A-32	Sequence 32, Appl
106	33	62.3	543	2	US-08-697-610-2	Sequence 2, Appl	179	32	60.4	1572	2	US-09-561-818A-28	Sequence 28, Appl
107	33	62.3	543	2	US-08-349-357-2	Sequence 2, Appl	180	32	60.4	1572	2	US-10-037-182-20	Sequence 20, Appl
108	33	62.3	567	2	US-09-645-926A-7	Sequence 7, Appl	181	32	60.4	1605	2	US-09-562-702A-30	Sequence 30, Appl
109	33	62.3	567	2	US-08-813-323C-1	Sequence 1, Appl	182	32	60.4	1605	2	US-09-561-818A-26	Sequence 26, Appl
110	33	62.3	568	2	US-09-949-016-6339	Sequence 6339, Ap	183	32	60.4	1605	2	US-10-037-182-18	Sequence 18, Appl
111	33	62.3	568	2	US-08-813-323C-2	Sequence 2, Appl	184	31	58.5	17	2	US-09-128-344A-21	Sequence 21, Appl
112	33	62.3	634	2	US-09-248-796A-17852	Sequence 17852, A	185	31	58.5	17	2	US-09-128-344A-130	Sequence 130, App
113	33	62.3	640	2	US-09-949-016-7992	Sequence 7992, Ap	186	31	58.5	17	2	US-09-128-344A-130	Sequence 130, App
114	33	62.3	738	2	US-09-248-796A-16666	Sequence 16666, A	187	31	58.5	17	5	US-10-255-011-21	Sequence 21, Appl
115	33	62.3	785	2	US-09-538-092-872	Sequence 872, App	188	31	58.5	17	5	US-10-255-011-109	Sequence 109, App
116	33	62.3	895	2	US-09-270-767-42746	Sequence 42746, A	189	31	58.5	17	5	US-10-255-011-130	Sequence 130, App
117	33	62.3	1063	2	US-09-270-767-44682	Sequence 44682, A	190	31	58.5	18	2	US-09-128-344A-29	Sequence 29, Appl
118	33	60.4	593	2	US-09-854-864-20	Sequence 20, Appl	191	31	58.5	18	2	US-09-128-344A-39	Sequence 39, Appl
119	32	60.4	67	2	US-09-854-864-16	Sequence 16, Appl	192	31	58.5	18	2	US-09-128-344A-43	Sequence 43, Appl
120	32	60.4	84	2	US-09-621-976-4719	Sequence 4719, Ap	193	31	58.5	18	2	US-09-128-344A-113	Sequence 113, App
121	32	60.4	85	2	US-09-270-767-58747	Sequence 58747, A	194	31	58.5	18	2	US-09-128-344A-118	Sequence 118, App
122	32	60.4	102	2	US-09-732-210-1066	Sequence 1066, Ap	195	31	58.5	18	2	US-09-128-344A-120	Sequence 120, App
123	32	60.4	105	2	US-09-732-210-1067	Sequence 1067, Ap	196	31	58.5	18	2	US-09-128-344A-134	Sequence 134, App
124	32	60.4	106	1	US-08-557-128-6	Sequence 6, Appl	197	31	58.5	18	2	US-09-128-344A-139	Sequence 139, App
125	32	60.4	106	2	US-09-242-690A-39	Sequence 39, Appl	198	31	58.5	18	2	US-09-128-344A-141	Sequence 141, App
126	32	60.4	106	2	US-09-732-210-370	Sequence 370, App	199	31	58.5	18	5	US-10-255-011-29	Sequence 29, Appl
127	32	60.4	106	2	US-09-908-855-39	Sequence 39, Appl	200	31	58.5	18	5	US-10-255-011-39	Sequence 39, Appl
128	32	60.4	106	2	US-09-674-826B-2	Sequence 2, Appl	201	31	58.5	18	5	US-10-255-011-43	Sequence 43, Appl
129	32	60.4	111	1	US-08-288-728-4	Sequence 4, Appl	202	31	58.5	18	5	US-10-255-011-113	Sequence 113, App
130	32	60.4	111	2	US-09-248-796A-19756	Sequence 19756, A	203	31	58.5	18	5	US-10-255-011-118	Sequence 118, App
131	32	60.4	116	2	US-09-543-681A-6905	Sequence 6905, A	204	31	58.5	18	5	US-10-255-011-120	Sequence 120, App
132	32	60.4	138	2	US-09-134-001C-4650	Sequence 4650, Ap	205	31	58.5	18	5	US-10-255-011-134	Sequence 134, App
133	32	60.4	142	2	US-09-848-295-2	Sequence 2, Appl	206	31	58.5	18	5	US-10-255-011-139	Sequence 139, App
134	32	60.4	151	2	US-09-248-796A-14713	Sequence 14713, A	207	31	58.5	18	5	US-10-255-011-141	Sequence 141, App
135	32	60.4	153	2	US-09-270-767-41674	Sequence 41674, A	208	31	58.5	28	1	US-08-331-394-15	Sequence 15, Appl
136	32	60.4	166	1	US-08-810-572A-6	Sequence 6, Appl	209	31	58.5	28	1	US-08-331-394-15	Sequence 15, Appl
137	32	60.4	166	2	US-09-290-333-6	Sequence 6, Appl	210	31	58.5	28	1	US-08-446-915-15	Sequence 15, Appl
138	32	60.4	166	2	US-09-782-857A-6	Sequence 6, Appl	211	31	58.5	28	1	US-08-446-915-15	Sequence 15, Appl
139	32	60.4	166	2	US-09-854-864-15	Sequence 15, Appl	212	31	58.5	28	2	US-08-779-599-15	Sequence 15, Appl
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142	32	60.4	293	1	US-08-810-572A-2	Sequence 2, Appl	215	31	58.5	52	2	US-10-144-929-121	Sequence 121, App
143	32	60.4	293	2	US-09-290-333-2	Sequence 2, Appl	216	31	58.5	54	2	US-09-755-665-42	Sequence 42, Appl
144	32	60.4	293	2	US-09-782-857A-2	Sequence 2, Appl	217	31	58.5	69	2	US-09-270-767-59743	Sequence 59743, A
145	32	60.4	293	2	US-09-879-919-22	Sequence 22, Appl	218	31	58.5	91	1	US-08-168-091A-28	Sequence 22634, A
146	32	60.4	293	2	US-09-848-295-4	Sequence 4, Appl	219	31	58.5	95	1	US-07-847-743B-14	Sequence 28, Appl
147	32	60.4	293	2	US-09-854-864-14	Sequence 14, Appl	220	31	58.5	95	1	US-08-456-201-14	Sequence 14, Appl
148	32	60.4	307	2	US-09-634-238-245	Sequence 245, App	221	31	58.5	95	1	US-08-330-161-12	Sequence 12, Appl
149	32	60.4	310	2	US-09-583-110-4062	Sequence 4062, Ap	222	31	58.5	95	1	US-08-456-241-14	Sequence 14, Appl
150	32	60.4	357	2	US-09-949-016-9074	Sequence 9074, Ap	223	31	58.5	95	1	US-08-440-401-12	Sequence 12, Appl
151	32	60.4	363	2	US-09-949-016-11040	Sequence 11040, A	224	31	58.5	95	1	US-08-440-401-12	Sequence 12, Appl
152	32	60.4	365	2	US-09-949-016-9075	Sequence 9075, Ap	225	31	58.5	95	2	US-09-173-480-12	Sequence 12, Appl
153	32	60.4	371	2	US-09-949-016-9073	Sequence 9073, Ap	226	31	58.5	95	2	US-10-022-609-12	Sequence 12, Appl
154	32	60.4	387	2	US-09-252-991A-18114	Sequence 18114, A	227	31	58.5	100	2	PCT-US92-04295A-14	Sequence 14, Appl
155	32	60.4	397	2	US-09-854-864-18	Sequence 18, Appl	228	31	58.5	105	2	US-09-755-665-40	Sequence 40, Appl
156	32	60.4	405	2	US-09-949-016-9433	Sequence 9433, Ap	229	31	58.5	105	2	US-09-732-210-1069	Sequence 1069, Ap
157	32	60.4	407	2	US-08-753-007A-6	Sequence 6, Appl	230	31	58.5	107	2	US-09-755-665-10	Sequence 10, Appl
158	32	60.4	407	2	US-09-328-496-6	Sequence 6, Appl	231	31	58.5	107	2	US-10-169-048-46	Sequence 46, Appl
159	32	60.4	446	2	US-09-538-092-781	Sequence 781, App	232	31	58.5	113	1	US-08-168-091A-26	Sequence 26, Appl
160	32	60.4	464	2	US-09-198-452A-816	Sequence 816, App	233	31	58.5	118	2	US-09-270-767-60607	Sequence 60607, A
161	32	60.4	464	2	US-09-438-185A-768	Sequence 768, App	234	31	58.5	119	2	US-09-270-767-58636	Sequence 58636, A
162	32	60.4	467	2	US-09-248-796A-17558	Sequence 17558, A	235	31	58.5	122	2	US-09-489-039A-7844	Sequence 7844, Ap
163	32	60.4	469	2	US-08-753-007A-8	Sequence 8, Appl	236	31	58.5	144	2	US-09-270-767-43293	Sequence 43293, A
164	32	60.4	469	2	US-09-328-496-8	Sequence 8, Appl	237	31	58.5	146	2	US-09-489-039A-7386	Sequence 7386, Ap
165	32	60.4	529	2	US-09-385-219A-44	Sequence 44, Appl	238	31	58.5	158	2	US-09-523-991A-24669	Sequence 24669, A
166	32	60.4	558	2	US-09-138-277C-1	Sequence 1, Appl	239	31	58.5	159	2	US-09-543-681A-51126	Sequence 51126, Ap
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168	32	60.4	605	2	US-08-753-007A-2	Sequence 2, Appl	241	31	58.5	177	2	US-09-893-737-156	Sequence 156, App
169	32	60.4	605	2	US-09-328-496-2	Sequence 2, Appl	242	31	58.5	188	2	US-08-470-335-206	Sequence 206, App
170	32	60.4	637	2	US-09-569-611C-35	Sequence 35, Appl	243	31	58.5	188	2	US-09-270-767-62036	Sequence 62036, A
171	32	60.4	647	2	US-08-753-007A-32	Sequence 32, Appl	244	31	58.5	188	2	US-08-411-295F-37	Sequence 37, Appl
172	32	60.4	647	2	US-09-398-496-32	Sequence 32, Appl	245	31	58.5	188	2	US-08-411-295F-30	Sequence 30, Appl
173	32	60.4	754	1	US-08-525-864A-2	Sequence 2, Appl	246	31	58.5	190	2	US-08-341-018-42	Sequence 42, Appl

247	31	58.5	190	2	US-08-341-018-44	Sequence 44, Appl	320	31	58.5	422	2	US-08-753-007A-9	Sequence 9, Appl1
248	31	58.5	190	2	US-08-470-335-217	Sequence 217, App	321	31	58.5	422	2	US-09-398-496-9	Sequence 9, Appl1
249	31	58.5	190	2	US-08-470-339-204	Sequence 204, App	322	31	58.5	423	2	US-08-467-602-255	Sequence 255, Appl
250	31	58.5	190	2	US-08-470-339-217	Sequence 217, App	323	31	58.5	423	2	US-08-411-295F-181	Sequence 181, App
251	31	58.5	190	2	US-08-467-602-398	Sequence 398, App	324	31	58.5	427	2	US-08-467-602-189	Sequence 189, App
252	31	58.5	190	2	US-08-467-602-411	Sequence 411, App	325	31	58.5	427	2	US-08-411-295F-313	Sequence 313, App
253	31	58.5	210	2	US-08-467-602-191	Sequence 191, App	326	31	58.5	429	2	US-08-467-602-269	Sequence 269, App
254	31	58.5	210	2	US-08-411-295F-315	Sequence 315, App	327	31	58.5	429	2	US-08-411-295F-195	Sequence 195, App
255	31	58.5	213	2	US-08-467-602-186	Sequence 186, App	328	31	58.5	430	2	US-08-467-602-187	Sequence 187, App
256	31	58.5	213	2	US-08-411-295F-310	Sequence 310, App	329	31	58.5	430	2	US-08-411-295F-311	Sequence 311, App
257	31	58.5	219	2	US-08-467-602-200	Sequence 200, App	330	31	58.5	432	2	US-08-467-602-266	Sequence 266, App
258	31	58.5	219	2	US-08-411-295F-324	Sequence 324, App	331	31	58.5	432	2	US-08-411-295F-192	Sequence 192, App
259	31	58.5	222	2	US-08-467-602-197	Sequence 197, App	332	31	58.5	436	2	US-08-467-602-201	Sequence 201, App
260	31	58.5	222	2	US-08-411-295F-321	Sequence 321, App	333	31	58.5	436	2	US-08-411-295F-325	Sequence 325, App
261	31	58.5	233	2	US-08-467-602-194	Sequence 194, App	334	31	58.5	437	2	US-09-252-991A-24572	Sequence 24572, A
262	31	58.5	233	2	US-08-411-295F-318	Sequence 318, App	335	31	58.5	439	2	US-08-467-602-198	Sequence 198, App
263	31	58.5	236	2	US-09-252-991A-27618	Sequence 27618, A	336	31	58.5	443	2	US-08-411-295F-322	Sequence 322, App
264	31	58.5	239	2	US-09-543-681A-4932	Sequence 4932, Ap	337	31	58.5	443	2	US-08-467-602-189	Sequence 189, App
265	31	58.5	242	2	US-08-467-602-203	Sequence 203, App	338	31	58.5	448	2	US-08-411-295F-189	Sequence 189, App
266	31	58.5	242	2	US-08-411-295F-327	Sequence 327, App	339	31	58.5	450	2	US-08-467-602-195	Sequence 195, App
267	31	58.5	258	2	US-09-328-352-4253	Sequence 4253, Ap	340	31	58.5	450	2	US-08-411-295F-319	Sequence 319, App
268	31	58.5	262	2	US-09-270-767-59434	Sequence 59434, A	341	31	58.5	452	2	US-08-467-602-272	Sequence 272, App
269	31	58.5	263	2	US-09-662-254B-15	Sequence 15, Appl	342	31	58.5	452	2	US-08-411-295F-198	Sequence 198, App
270	31	58.5	290	1	US-08-321-478-7	Sequence 7, Appl1	343	31	58.5	454	1	US-08-166-316-2	Sequence 2, Appl1
271	31	58.5	290	1	US-08-321-478-8	Sequence 8, Appl1	344	31	58.5	454	1	US-09-124-238A-1	Sequence 10, Appl1
272	31	58.5	290	1	US-08-321-478-9	Sequence 9, Appl1	345	31	58.5	457	2	US-09-124-238A-10	Sequence 10, Appl1
273	31	58.5	298	2	US-09-684-708A-7	Sequence 7, Appl1	346	31	58.5	457	2	US-09-721-975-1	Sequence 1, Appl1
274	31	58.5	351	2	US-09-543-681A-8338	Sequence 8338, Ap	347	31	58.5	457	2	US-09-721-975-10	Sequence 10, Appl1
275	31	58.5	352	2	US-08-467-602-239	Sequence 239, App	348	31	58.5	457	2	US-09-986-621-1	Sequence 1, Appl1
276	31	58.5	352	2	US-09-270-767-45115	Sequence 45115, A	349	31	58.5	457	2	US-09-986-621-10	Sequence 10, Appl1
277	31	58.5	352	2	US-08-411-295F-165	Sequence 165, App	350	31	58.5	457	2	US-09-986-625-1	Sequence 10, Appl1
278	31	58.5	355	2	US-08-467-602-234	Sequence 234, App	351	31	58.5	457	2	US-09-986-625-10	Sequence 204, App
279	31	58.5	355	2	US-08-411-295F-160	Sequence 160, App	352	31	58.5	459	2	US-08-467-602-204	Sequence 328, App
280	31	58.5	360	2	US-09-252-991A-31993	Sequence 31993, A	353	31	58.5	459	2	US-08-411-295F-328	Sequence 328, App
281	31	58.5	361	2	US-08-467-602-248	Sequence 248, App	354	31	58.5	462	2	US-09-489-039A-12427	Sequence 12427, A
282	31	58.5	361	2	US-08-411-295F-174	Sequence 174, App	355	31	58.5	462	2	US-08-467-602-190	Sequence 190, App
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286	31	58.5	375	2	US-08-411-295F-168	Sequence 168, App	359	31	58.5	477	2	US-08-411-295F-309	Sequence 309, App
287	31	58.5	383	2	US-09-266-965-100	Sequence 100, App	360	31	58.5	483	2	US-09-949-016-9255	Sequence 9255, App
288	31	58.5	383	2	US-08-467-602-251	Sequence 251, App	361	31	58.5	483	2	US-08-467-602-193	Sequence 193, App
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292	31	58.5	386	2	US-08-411-295F-144	Sequence 144, App	365	31	58.5	497	2	US-08-467-602-205	Sequence 205, App
293	31	58.5	386	2	US-08-411-295F-307	Sequence 307, App	366	31	58.5	506	2	US-08-467-602-205	Sequence 329, App
294	31	58.5	389	2	US-08-467-602-213	Sequence 213, App	367	31	58.5	506	2	US-08-411-295F-329	Sequence 3, Appl1
295	31	58.5	389	2	US-08-467-602-276	Sequence 276, App	368	31	58.5	506	2	US-09-138-277C-3	Sequence 58, Appl1
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314	31	58.5	420	1	US-07-847-743B-29	Sequence 29, Appl	387	31	58.5	601	2	US-08-467-602-232	Sequence 232, App
315	31	58.5	420	1	US-08-456-201-29	Sequence 29, Appl	388	31	58.5	601	2	US-08-411-295F-178	Sequence 178, App
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319	31	58.5	420	4	PCT-US92-04295A-29	Sequence 29, Appl	392	31	58.5	602	1		

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401	31	58.5	604	2	US-08-470-335-227	Sequence 227, App	474	31	58.5	645	1	US-08-428-926-4	Sequence 4, Appl1
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404	31	58.5	606	2	US-08-467-602-214	Sequence 214, App	477	31	58.5	645	1	US-08-339-517-4	Sequence 4, Appl1
405	31	58.5	606	2	US-08-467-602-277	Sequence 277, App	478	31	58.5	645	1	US-08-456-201-1	Sequence 27, Appl1
406	31	58.5	606	2	US-08-411-295F-140	Sequence 140, App	479	31	58.5	645	2	US-08-753-007A-10	Sequence 10, Appl1
407	31	58.5	606	2	US-08-411-295F-203	Sequence 203, App	480	31	58.5	645	2	US-08-398-496-10	Sequence 10, Appl1
408	31	58.5	610	2	US-08-470-335-236	Sequence 236, App	481	31	58.5	645	2	US-09-120-880-93	Sequence 93, Appl1
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420	31	58.5	615	2	US-08-411-295F-151	Sequence 151, App	493	31	58.5	648	2	US-08-467-602-233	Sequence 233, App
421	31	58.5	615	2	US-08-411-295F-214	Sequence 214, App	494	31	58.5	648	2	US-08-411-295F-119	Sequence 119, App
422	31	58.5	616	2	US-08-467-602-238	Sequence 238, App	495	31	58.5	649	2	US-08-467-602-267	Sequence 267, App
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433	31	58.5	625	2	US-08-411-295F-176	Sequence 176, App	506	31	58.5	658	2	US-08-467-602-368	Sequence 368, App
434	31	58.5	625	4	PCT-US92-04295A-26	Sequence 26, Appl1	507	31	58.5	658	2	US-08-411-295F-311	Sequence 311, App
435	31	58.5	626	2	US-08-467-602-322	Sequence 232, App	508	31	58.5	658	2	US-08-411-295F-294	Sequence 294, App
436	31	58.5	626	2	US-08-467-602-285	Sequence 285, App	509	31	58.5	659	2	US-08-467-602-229	Sequence 229, App
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439	31	58.5	628	2	US-08-467-602-247	Sequence 247, App	512	31	58.5	659	2	US-08-411-295F-218	Sequence 218, App
440	31	58.5	628	2	US-08-411-295F-173	Sequence 173, App	513	31	58.5	660	2	US-08-467-602-264	Sequence 264, App
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450	31	58.5	635	2	US-08-411-295F-228	Sequence 228, App	523	31	58.5	669	1	US-08-456-201-8	Sequence 8, Appl1
451	31	58.5	635	2	US-08-411-295F-291	Sequence 291, App	524	31	58.5	669	1	US-07-847-743B-8	Sequence 8, Appl1
452	31	58.5	637	1	US-07-847-743B-28	Sequence 28, Appl1	525	31	58.5	669	1	US-08-456-201-13	Sequence 13, Appl1
453	31	58.5	637	1	US-08-456-201-28	Sequence 28, Appl1	526	31	58.5	669	1	US-08-456-201-1	Sequence 1, Appl1
454	31	58.5	637	1	US-08-456-241-28	Sequence 28, Appl1	527	31	58.5	669	1	US-08-330-161-11	Sequence 11, Appl1
455	31	58.5	637	1	US-08-467-602-558	Sequence 258, App	528	31	58.5	669	1	US-08-456-241-8	Sequence 8, Appl1
456	31	58.5	637	2	US-08-411-295F-184	Sequence 184, App	529	31	58.5	669	1	US-08-456-241-13	Sequence 13, Appl1
457	31	58.5	637	4	PCT-US92-04295A-28	Sequence 28, Appl1	530	31	58.5	669	1	US-08-440-401-11	Sequence 11, Appl1
458	31	58.5	638	2	US-08-470-335-240	Sequence 240, App	531	31	58.5	669	1	US-08-419-878B-11	Sequence 11, Appl1
459	31	58.5	638	2	US-08-467-602-297	Sequence 297, App	532	31	58.5	669	2	US-09-173-480-11	Sequence 11, Appl1
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464	31	58.5	639	2	US-08-411-295F-167	Sequence 167, App	537	31	58.5	669	2	US-10-022-609-11	Sequence 11, Appl1
465	31	58.5	640	2	US-08-467-602-256	Sequence 256, App	538	31	58.5	669	4	PCT-US92-04295A-8	Sequence 8, Appl1

539	31	58.5	669	4	PCT-US92-04295A-13	Sequence 13, App	612	31	58.5	864	2	US-08-411-295F-298	Sequence 298, App
540	31	58.5	672	2	US-08-467-602-339	Sequence 339, App	613	31	58.5	865	2	US-08-470-335-235	Sequence 235, App
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543	31	58.5	673	2	US-08-467-602-283	Sequence 283, App	616	31	58.5	866	2	US-08-470-335-229	Sequence 229, App
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545	31	58.5	673	2	US-08-411-295F-209	Sequence 209, App	618	31	58.5	866	2	US-08-411-295F-243	Sequence 243, App
546	31	58.5	678	2	US-08-467-602-353	Sequence 353, App	619	31	58.5	874	2	US-08-470-335-238	Sequence 238, App
547	31	58.5	678	2	US-08-411-295F-279	Sequence 279, App	620	31	58.5	874	2	US-08-467-602-334	Sequence 334, App
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550	31	58.5	682	2	US-08-467-602-232	Sequence 232, App	623	31	58.5	875	2	US-08-467-602-369	Sequence 369, App
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554	31	58.5	684	2	US-08-467-602-259	Sequence 259, App	627	31	58.5	877	2	US-08-467-602-131	Sequence 131, App
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556	31	58.5	687	2	US-08-467-602-254	Sequence 254, App	629	31	58.5	884	2	US-08-467-602-125	Sequence 125, App
557	31	58.5	687	2	US-08-411-295F-180	Sequence 180, App	630	31	58.5	884	2	US-08-411-295F-241	Sequence 241, App
558	31	58.5	687	2	US-08-467-602-347	Sequence 347, App	631	31	58.5	884	2	US-08-411-295F-304	Sequence 304, App
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562	31	58.5	693	2	US-09-684-708A-5	Sequence 5, App1	635	31	58.5	888	2	US-08-411-295F-251	Sequence 251, App
563	31	58.5	695	2	US-08-467-602-268	Sequence 268, App	636	31	58.5	889	2	US-08-467-602-340	Sequence 340, App
564	31	58.5	696	2	US-08-411-295F-194	Sequence 194, App	637	31	58.5	889	2	US-08-467-602-354	Sequence 354, App
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571	31	58.5	716	2	US-08-411-295F-200	Sequence 200, App	644	31	58.5	899	2	US-08-470-335-449	Sequence 449, App
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575	31	58.5	732	4	PCT-US92-04295A-9	Sequence 9, App1	648	31	58.5	899	2	US-08-411-295F-290	Sequence 290, App
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611	31	58.5	864	2	US-08-411-295F-235	Sequence 235, App	684	31	58.5	945	2	US-08-411-295F-278	Sequence 278, App

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700	30	56.6	30	2	US-08-442-108B-2	Sequence 2, Appl1	773	30	56.6	317	2	US-10-006-768A-322	Sequence 322, App
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702	30	56.6	51	2	US-10-004-860-290	Sequence 290, App	775	30	56.6	317	2	US-10-015-993A-332	Sequence 322, App
703	30	56.6	54	2	US-08-852-666-8	Sequence 8, Appl1	776	30	56.6	317	2	US-10-011-833A-332	Sequence 322, App
704	30	56.6	59	2	US-09-230-637-47	Sequence 47, Appl	777	30	56.6	317	2	US-10-006-041A-332	Sequence 322, App
705	30	56.6	60	2	US-09-543-681A-7625	Sequence 7625, App	778	30	56.6	317	2	US-10-012-064A-322	Sequence 322, App
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708	30	56.6	76	2	US-09-513-999C-5863	Sequence 5863, App	781	30	56.6	320	2	US-09-022-765-55	Sequence 22, Appl1
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715	30	56.6	103	2	US-09-903-190-111	Sequence 111, App	788	30	56.6	320	2	US-09-639-206A-22	Sequence 22, Appl
716	30	56.6	105	2	US-09-162-564-5	Sequence 5, Appl1	789	30	56.6	320	2	US-09-639-206A-55	Sequence 55, Appl
717	30	56.6	105	2	US-09-538-092-1085	Sequence 1085, App	790	30	56.6	320	2	US-09-874-923-22	Sequence 22, Appl
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756	30	56.6	219	2	US-09-213-391-1	Sequence 1, Appl1	829	30	56.6	320	2	US-09-538-092-218	Sequence 218, App
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844	30	56.6	1125	2	US-09-949-016-10194	Sequence 6885, Ap	917	29	54.7	172	2	US-10-288-273-6	Sequence 7, Appl1
845	30	56.6	1214	2	US-09-949-016-6885	Sequence 26, Appl1	918	29	54.7	172	2	US-09-616-614-7	Sequence 6, Appl1
846	30	56.6	1318	2	US-09-554-572-26	Sequence 7130, Ap	919	29	54.7	178	2	US-08-706-945D-136	Sequence 6339, Ap
847	30	56.6	1318	2	US-09-949-016-7130	Sequence 2, Appl1	920	29	54.7	178	2	US-09-107-532A-6939	Sequence 136, App
848	30	56.6	1509	2	US-09-677-046A-2	Sequence 13, Appl1	921	29	54.7	178	2	US-09-100-391-6	Sequence 6, Appl1
849	30	56.6	1737	2	US-09-309-572-13	Sequence 13, Appl1	922	29	54.7	178	2	US-09-616-614-6	Sequence 6, Appl1
850	30	56.6	1737	2	US-09-718-096-13	Sequence 70, Appl1	923	29	54.7	179	1	US-08-481-956A-11	Sequence 11, Appl1
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981 29 54.7 341 2 US-09-270-767-45876 Sequence 45876, A  
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990 29 54.7 363 2 US-09-149-879-6 Sequence 6, Appl1  
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996 29 54.7 366 2 US-09-270-767-38673 Sequence 38673, A  
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1000 29 54.7 382 2 US-09-134-001C-4483 Sequence 4483, Ap

## ALIGNMENTS

RESULT 1  
US-08-466-285-2  
Sequence 2, Application US/08466285  
Patent No. 5753233  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISSMANN, Lutz  
APPLICANT: MULLER, Martin  
TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
TITLE OF INVENTION: Human Papillomavirus (HPV) 18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Flinnegan, Henderson, Farabow, Garrett &  
ADDRESSEE: Dunner  
STREET: 1300 I Street, N.W., Suite 700  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:  
NAME: Manspeizer, David A.  
REGISTRATION NUMBER: 37,540  
REFERENCE/DOCKET NUMBER: 05552.1075-03000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)408-4400  
TELEFAX: (202)408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-2

Query Match 100.0%; Score 53; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 0.048;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
Db 24 EITCVYCKT 32

RESULT 2  
US-08-164-768-2  
Sequence 2, Application US/08164768  
Patent No. 6322794  
GENERAL INFORMATION:  
APPLICANT: BLEUL, Conrad  
APPLICANT: GISSMANN, Lutz  
APPLICANT: MULLER, Martin  
TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLINNAGAN, HENDERSON, FARABOW, GARRETT &  
ADDRESSEE: DUNNER, L.L.P.  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Forman, David S.  
REGISTRATION NUMBER: 33,694  
REFERENCE/DOCKET NUMBER: 05552.1075-02000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-164-768-2

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Best Local Similarity 100.0%; Pred. No. 0.048;  
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 Db 24 EITCVYCKT 32

RESULT 3  
 US-08-247-904B-10  
 ; Sequence 10, Application US/08247904B  
 ; Patent No. 5981699

GENERAL INFORMATION:  
 APPLICANT: Rolfe, Mark  
 APPLICANT: Eckstein, Jens W.  
 APPLICANT: Draetta, Giulio  
 TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
 NUMBER OF SEQUENCES: 17  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Foley, Hoag & Eliot  
 STREET: One Post Office Square  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02109  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: ASCII(text)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/247,904B  
 FILING DATE: 23-MAY-1994  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Vincent, Matthew P.  
 REGISTRATION NUMBER: 36,709  
 REFERENCE/DOCKET NUMBER: MIV-029.01  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 832-7000  
 TELEFAX: (617) 832-7000  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 158 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-247-904B-10

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 Db 29 EITCVYCKT 37

RESULT 4  
 US-08-767-942A-19  
 ; Sequence 19, Application US/08767942A  
 ; Patent No. 6068982  
 GENERAL INFORMATION:  
 APPLICANT: Rolfe, Mark  
 APPLICANT: Chiu, M. Isabel  
 APPLICANT: Berlin, Vivian  
 APPLICANT: Damagnez, Veronique  
 APPLICANT: Draetta, Giulio  
 APPLICANT: Guillaume, Cottarel  
 TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
 NUMBER OF SEQUENCES: 45  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
 STREET: One Post Office Square  
 CITY: Boston  
 STATE: MA

COUNTRY: USA  
 ZIP: 02109-2170  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/767,942A  
 FILING DATE: 17-DEC-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Vincent, Matthew P.  
 REGISTRATION NUMBER: 36,709  
 REFERENCE/DOCKET NUMBER: MIV-029.04  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617-832-7000  
 TELEFAX: 617-832-7000  
 INFORMATION FOR SEQ ID NO: 19:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 158 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-767-942A-19

Query Match 100.0%; Score 53; DB 2; Length 158;  
 Best Local Similarity 100.0%; Pred. No. 0.21;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
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 Db 29 EITCVYCKT 37

RESULT 5  
 US-08-117-083-14  
 ; Sequence 14, Application US/08117083  
 ; Patent No. 5719054  
 GENERAL INFORMATION:  
 APPLICANT: Bourneil, Michael E.  
 APPLICANT: Inglis, Stephen C.  
 APPLICANT: Munro, Alan J.  
 TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
 NUMBER OF SEQUENCES: 70  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Walter H. Dregger  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94111  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/117,083  
 FILING DATE: 10-SEP-1993  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Dregger, Walter H.  
 REGISTRATION NUMBER: 24,190  
 REFERENCE/DOCKET NUMBER: A-58783  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-781-1989  
 TELEFAX: 415-398-3249  
 TELEX: 910 277299  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 271 amino acids  
 TYPE: amino acid

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STRANDEDNESS: single
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; TOPOLOGY: linear
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; NAME/KEY: Protein
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; OTHER INFORMATION: /note="Xaa refers to stop codon in
; the open reading frame."
US-08-117-083-14
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      30 EITCVYCKT 38
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RESULT 6
US-09-485-885-21
; Sequence 21, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-21
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Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      140 EITCVYCKT 148
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RESULT 7
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-23
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Query Match          100.0%; Score 53; DB 2; Length 383;
Best Local Similarity 100.0%; Pred. No. 0.46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 EITCVYCKT 9
Db      140 EITCVYCKT 148
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RESULT 8
US-08-159-339A-1176
; Sequence 1176, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esteban
; TITLE OF INVENTION: HLA Binding peptides and Their
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 1176:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-1176
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Query Match          90.6%; Score 48; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 EITCVYCK 8
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Db 8 EITCVYCK 15

RESULT 9  
US-09-248-796A-19660  
; Sequence 19660, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248.796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 19660  
; LENGTH: 134  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-19660

Query Match 75.5%; Score 40; DB 2; Length 134;  
Best Local Similarity 75.0%; Pred. No. 20;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EITCVYCK 8  
Db 49 EITCVYCK 56

RESULT 10  
US-09-583-110-4329  
; Sequence 4329, Application US/09583110  
; Patent No. 6699703  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al.  
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
; FILE REFERENCE: PATH00-07A  
; CURRENT APPLICATION NUMBER: US/09/583,110  
; CURRENT FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/107,433  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: US 60/085,131  
; PRIOR FILING DATE: 1998-05-12  
; PRIOR APPLICATION NUMBER: US 60/051,553  
; PRIOR FILING DATE: 1997-07-02  
; NUMBER OF SEQ ID NOS: 5322  
; SEQ ID NO 4329  
; LENGTH: 290  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4329

Query Match 73.6%; Score 39; DB 2; Length 290;  
Best Local Similarity 66.7%; Pred. No. 59;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EITCVYCK 9  
Db 265 EITCQFCQT 273

RESULT 11  
US-09-769-787-153  
; Sequence 153, Application US/09769787  
; Patent No. 6936252  
; GENERAL INFORMATION:

APPLICANT: Microbial Technics Limited  
; APPLICANT: Gilbert, Christophe FG  
; APPLICANT: Hansbro, Philip M  
; TITLE OF INVENTION: Proteins  
; FILE REFERENCE: PWC/B21129WO  
; CURRENT APPLICATION NUMBER: US/09/769,787  
; PRIOR FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: GB 9816337.1  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: US 60/125164  
; PRIOR FILING DATE: 1999-03-19  
; NUMBER OF SEQ ID NOS: 388  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 153  
; LENGTH: 290  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-09-769-787-153

Query Match 73.6%; Score 39; DB 2; Length 290;  
Best Local Similarity 66.7%; Pred. No. 59;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EITCVYCK 9  
Db 265 EITCQFCQT 273

RESULT 12  
US-09-107-433-2649  
; Sequence 2649, Application US/09107433  
; Patent No. 6800744  
; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE  
; THERAPEUTICS  
; NUMBER OF SEQUENCES: 5206  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
; STREET: 100 Beaver Street  
; CITY: Waltham  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02354  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: CD-ROM ISO9660  
; COMPUTER: <Unknown>  
; OPERATING SYSTEM: <Unknown>  
; SOFTWARE: <Unknown>  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/107,433  
; FILING DATE: 30-Jun-1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/085131  
; FILING DATE: May 12, 1998  
; APPLICATION NUMBER: 60/051553  
; FILING DATE: July 2, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ariniello, Pamela Deneke  
; REGISTRATION NUMBER: 40,489  
; REFERENCE/DOCKET NUMBER: GTC-011  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (781) 893-5007  
; TELEFAX: (781) 893-8277  
; INFORMATION FOR SEQ ID NO: 2649:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 305 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHEetical: YES  
; ORIGINAL SOURCE:

ORGANISM: Streptococcus pneumoniae  
FEATURE: NAME/KEY: misc.feature  
LOCATION: (B) LOCATION 1...305  
SEQUENCE DESCRIPTION: SEQ ID NO: 2649;  
US-09-107-433-2649

Query Match 73.6%; Score 39; DB 2; Length 305;  
Best Local Similarity 66.7%; Pred. No. 62;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVCKT 9  
|||:|  
Db 280 EITCVCKT 288

RESULT 13  
US-09-270-767-61572  
Sequence 61572; Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 61572  
LENGTH: 598  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-61572

Query Match 69.8%; Score 37; DB 2; Length 598;  
Best Local Similarity 62.5%; Pred. No. 2.4e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVCK 8  
::|||  
Db 121 KLTFCYCK 128

RESULT 14  
US-09-000-094-20  
Sequence 20; Application US/09000094  
Patent No. 6365160  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGERTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Scirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 20:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 368 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULAR TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
US-09-000-094-20

Query Match 67.9%; Score 36; DB 2; Length 368;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVCK 8  
:|:|  
Db 28 QINCVCK 35

RESULT 15  
US-10-011-749-20  
Sequence 20; Application US/10011749  
Patent No. 6726912  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGERTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Scirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/011,749  
FILING DATE: 11-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995

ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 20:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 368 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
US-10-011-749-20

Query Match 67.9%; Score 36; DB 2; Length 368;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 16  
US-09-000-094-22  
Sequence 22, Application US/09000094  
Patent No. 6365160  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGERTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Stirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 375 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
US-09-000-094-22

Query Match 67.9%; Score 36; DB 2; Length 375;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 17  
US-10-011-749-22  
Sequence 22, Application US/10011749  
Patent No. 6726912  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGERTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCMILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Stirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/011,749  
FILING DATE: 11-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 375 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
US-10-011-749-22

Query Match 67.9%; Score 36; DB 2; Length 375;  
Best Local Similarity 62.5%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 18  
US-09-000-094-24  
; Sequence 24, Application US/09000094  
; Patent No. 6365160  
; GENERAL INFORMATION:  
; APPLICANT: WEBB, Elizabeth Ann  
; MARGETTS, Mary Brigid  
; COX, John Cooper  
; FRAZER, Ian  
; MCWILLAN, Nigel Alan John  
; WILLIAMS, Mark Philip  
; MOLONEY, Margaret Bridget  
; Holland  
; EDWARDS, Stirling John  
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY & LARDNER  
; STREET: 3000 K Street, N.W.  
; City: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/000.094  
; FILING DATE: 21-Apr-1998  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/AU96/00473  
; FILING DATE: 26-JUL-1996  
; APPLICATION NUMBER: AU PN 4439/95  
; FILING DATE: 27-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BENT, Stephen A.  
; REGISTRATION NUMBER: 29,768  
; REFERENCE/DOCKET NUMBER: 017227/0137  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 672-5300  
; TELEFAX: (202) 672-5399  
; INFORMATION FOR SEQ ID NO: 24:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 465 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:  
US-09-000-094-24

Query Match 67.9%; Score 36; DB 2; Length 465;  
Best Local Similarity 62.5%; Pred. No. 2.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 19  
US-10-011-749-24  
; Sequence 24, Application US/10011749  
; Patent No. 6726512  
; GENERAL INFORMATION:  
; APPLICANT: WEBB, Elizabeth Ann

MARGETTS, Mary Brigid  
COX, John Cooper  
FRAZER, Ian  
MCWILLAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Stirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
City: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/011,749  
FILING DATE: 11-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/000.094  
FILING DATE: 21-Apr-1998  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 24:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 465 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 24:  
US-10-011-749-24

Query Match 67.9%; Score 36; DB 2; Length 465;  
Best Local Similarity 62.5%; Pred. No. 2.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||:  
Db 28 QINCVFCK 35

RESULT 20  
US-09-000-094-46  
; Sequence 46, Application US/09000094  
; Patent No. 6365160  
; GENERAL INFORMATION:  
; APPLICANT: WEBB, Elizabeth Ann  
; MARGETTS, Mary Brigid  
; COX, John Cooper  
; FRAZER, Ian  
; MCWILLAN, Nigel Alan John  
; WILLIAMS, Mark Philip  
; MOLONEY, Margaret Bridget  
; Holland  
; EDWARDS, Stirling John  
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS

NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 46:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1587 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 46:  
US-09-000-094-46

Query Match 67.9% Score 36; DB 2; Length 1587;  
Best Local Similarity 62.5%; Pred. No. 8.3e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 EITCVYCK 8  
: |||:  
Db 714 QINCVFCK 721

RESULT 21  
US-10-011-749-46  
Sequence 46, Application US/10011749  
Patent No. 6726912  
GENERAL INFORMATION:  
APPLICANT: WEBB, Elizabeth Ann  
MARGETTS, Mary Bridgid  
COX, John Cooper  
FRAZER, Ian  
MCWILLIAN, Nigel Alan John  
WILLIAMS, Mark Philip  
MOLONEY, Margaret Bridget  
Holland  
EDWARDS, Stirling John  
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/011,749  
FILING DATE: 11-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/000,094  
FILING DATE: 21-Apr-1998  
APPLICATION NUMBER: WO PCT/AU96/00473  
FILING DATE: 26-JUL-1996  
APPLICATION NUMBER: AU PN 4439/95  
FILING DATE: 27-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 017227/0137  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 46:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1587 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 46:  
US-10-011-749-46

Query Match 67.9% Score 36; DB 2; Length 1587;  
Best Local Similarity 62.5%; Pred. No. 8.3e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 EITCVYCK 8  
: |||:  
Db 714 QINCVFCK 721

RESULT 22  
US-09-949-016-9908  
Sequence 9908, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 9908  
LENGTH: 3730  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-9908

Query Match 67.9% Score 36; DB 2; Length 3730;  
Best Local Similarity 71.4%; Pred. No. 1.8e+03;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 3 TCYVCKT 9  
: |||:  
Db 727 SCYVCKS 733

RESULT 23

US-08-159-339A-570  
; Sequence 570, Application US/08159339A  
; Patent No. 6037135  
; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Celis, Esben  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; TITLE OF INVENTION: Uses  
; NUMBER OF SEQUENCES: 1254  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,339A  
; FILING DATE: 29-NOV-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/926,666  
; FILING DATE: 07-AUG-1992  
; APPLICATION NUMBER: US 08/027,746  
; FILING DATE: 05-MAR-1993  
; APPLICATION NUMBER: US 08/103,396  
; FILING DATE: 06-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Weber, Ellen Lauver  
; REGISTRATION NUMBER: 32,762  
; REFERENCE/DOCKET NUMBER: 018623-005030US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 570:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-159-339A-570

Query Match 66.0%; Score 35; DB 2; Length 9;  
Best Local Similarity 71.4%; Pred. No. 4.6e+05;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 3 IECVYCK 9

RESULT 24  
US-08-159-339A-573  
; Sequence 573, Application US/08159339A  
; Patent No. 6037135  
; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Celis, Esben  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; TITLE OF INVENTION: Uses  
; NUMBER OF SEQUENCES: 1254  
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,339A  
; FILING DATE: 29-NOV-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/926,666  
; FILING DATE: 07-AUG-1992  
; APPLICATION NUMBER: US 08/027,746  
; FILING DATE: 05-MAR-1993  
; APPLICATION NUMBER: US 08/103,396  
; FILING DATE: 06-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Weber, Ellen Lauver  
; REGISTRATION NUMBER: 32,762  
; REFERENCE/DOCKET NUMBER: 018623-005030US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 573:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-159-339A-573

Query Match 66.0%; Score 35; DB 2; Length 10;  
Best Local Similarity 71.4%; Pred. No. 12;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 4 IECVYCK 10

RESULT 25  
US-08-934-915-160  
; Sequence 160, Application US/08934915  
; Patent No. 5932412  
; GENERAL INFORMATION:  
; APPLICANT: DILLNER, JOAKIM  
; APPLICANT: DILLNER, LENA  
; APPLICANT: CHENG, HWEI-MING  
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN  
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,  
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,  
; TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR  
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES  
; NUMBER OF SEQUENCES: 193  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MASON & ASSOCIATES, P.A.  
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500  
; CITY: CLEARWATER  
; STATE: FLORIDA  
; COUNTRY: U.S.A.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: Windows 3.0  
; SOFTWARE: Microsoft Word 6.0



```

;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Fouch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
;
; INFORMATION FOR SEQ ID NO: 160:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-934-915-160

Query Match          66.0%; Score 35; DB 1; Length 20;
Best Local Similarity 71.4%; Pred. No. 22;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      4 LECVYCK 10

RESULT 26
US-09-980-523A-4
; Sequence 4, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO/01/00115
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Human Papillomavirus
;
US-09-980-523A-4

Query Match          66.0%; Score 35; DB 2; Length 30;
Best Local Similarity 71.4%; Pred. No. 32;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      21 LECVYCK 27

RESULT 27
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
```

```

; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
; FILE REFERENCE: N73477C GCW
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
;
US-09-701-080C-18

Query Match          66.0%; Score 35; DB 2; Length 151;
Best Local Similarity 71.4%; Pred. No. 1,46+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      28 LECVYCK 34

RESULT 28
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO/01/00115
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
;
US-09-980-523A-2

Query Match          66.0%; Score 35; DB 2; Length 158;
Best Local Similarity 71.4%; Pred. No. 1,56+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
       : |||||
Db      35 LECVYCK 41

RESULT 29
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
```

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; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNMR-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
;
US-08-316-239B-3
;
Query Match 66.0%; Score 35; DB 1; Length 162;
Best Local Similarity 71.4%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8
Db 35 LECVCK 41

RESULT 30
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
;
;

```

```

; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNMR-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
;
US-08-316-239B-4
;
Query Match 66.0%; Score 35; DB 1; Length 162;
Best Local Similarity 71.4%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8
Db 35 LECVCK 41

RESULT 31
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
;
US-08-860-165-14
;
Query Match 66.0%; Score 35; DB 2; Length 172;
Best Local Similarity 71.4%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8
Db 104 LECVCK 110

RESULT 32
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
;

```

```
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/660,165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match      66.0%; Score 35; DB 2; Length 172;
Best Local Similarity 71.4%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCYCK 8
Db      104 LECYCK 110

RESULT 33
US-08-117-083-10
Sequence 10, Application US/08117083
Patent No. 5719054
GENERAL INFORMATION:
APPLICANT: Bourenell, Michael E.
APPLICANT: Ingalls, Stephen C.
APPLICANT: Munro, Alan J.
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESSEE: Walter H. Dregger
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/117,083
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dregger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-58763
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-398-3249
TELEFAX: 415-398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 182 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..182
OTHER INFORMATION: /note="Xaa refers to stop codon in
OTHER INFORMATION: the open reading frame."
```

```
US-08-117-083-10
Query Match      66.0%; Score 35; DB 1; Length 182;
Best Local Similarity 71.4%; Pred. No. 1.7e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCYCK 8
Db      36 LECYCK 42

RESULT 34
US-09-270-767-58555
Sequence 58555, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 58555
LENGTH: 189
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-58555

Query Match      66.0%; Score 35; DB 2; Length 189;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 EITCYCK 8
Db      65 EIHCKYCK 72

RESULT 35
US-09-462-993-1
Sequence 1, Application US/09462993
Patent No. 6884786
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUANE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/09/462,993
CURRENT FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match      66.0%; Score 35; DB 2; Length 243;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

QY 2 ITCVCK 8  
: |||||  
Db 63 LECVCK 69

RESULT 36  
US-09-270-767-32820  
; Sequence 32820, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 32820  
; LENGTH: 262  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-32820

Query Match 66.0%; Score 35; DB 2; Length 262;  
Best Local Similarity 83.3%; Pred. No. 2,3e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CVCYCK 9  
: |||||  
Db 25 CVCYCK 30

RESULT 37  
US-08-860-165-10  
; Sequence 10, Application US/08860165A  
; Patent No. 6004557  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 17227/1130  
; CURRENT APPLICATION NUMBER: US/08/860,165A  
; CURRENT FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PN0157  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-10

Query Match 66.0%; Score 35; DB 2; Length 266;  
Best Local Similarity 71.4%; Pred. No. 2,4e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: |||||  
Db 35 LECVCK 41

RESULT 38  
US-09-359-382-10  
; Sequence 10, Application US/09359382  
; Patent No. 6306397  
; GENERAL INFORMATION:

; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 017227/0148  
; CURRENT APPLICATION NUMBER: US/09/359,382  
; CURRENT FILING DATE: 1999-07-23  
; EARLIER APPLICATION NUMBER: US 08/860,165  
; EARLIER FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PN0157/94  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-359-382-10

Query Match 66.0%; Score 35; DB 2; Length 266;  
Best Local Similarity 71.4%; Pred. No. 2,4e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: |||||  
Db 35 LECVCK 41

RESULT 39  
US-09-367-309A-1  
; Sequence 1, Application US/09367309A  
; Patent No. 6428807  
; GENERAL INFORMATION:  
; APPLICANT: MACFARLAN, RODERICK I.  
; APPLICANT: MALLIAROS, JIM  
; TITLE OF INVENTION: CHEATING IMMUNOSTIMULATING COMPLEXES  
; FILE REFERENCE: 017227/0149  
; CURRENT APPLICATION NUMBER: US/09/367,309A  
; CURRENT FILING DATE: 1999-08-11  
; PRIOR APPLICATION NUMBER: PCT/AU98/00080  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: AU PO 5178  
; PRIOR FILING DATE: 1997-02-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentln Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-367-309A-1

Query Match 66.0%; Score 35; DB 2; Length 266;  
Best Local Similarity 71.4%; Pred. No. 2,4e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
: |||||  
Db 35 LECVCK 41

RESULT 40  
US-09-485-885-4  
; Sequence 4, Application US/09485885  
; Patent No. 6342224  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabezon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fernande  
; APPLICANT: Gerard, Catherine Marie Christaline  
; APPLICANT: Lombardo-Bencheikh, Angela

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
;
US-09-485-885-4

Query Match
Best Local Similarity 71.4%; Score 35; DB 2; Length 273;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8
Db 141 LECVYCK 147

RESULT 41
US-09-270-767-40146
; Sequence 40146, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 40146
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-40146

Query Match
Best Local Similarity 83.3%; Score 35; DB 2; Length 273;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVCYCK 9
Db 200 CVCYCK 205

RESULT 42
US-09-270-767-55362
; Sequence 55362, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 55362
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-55362

Query Match
Best Local Similarity 66.0%; Score 35; DB 2; Length 273;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVCYCK 9
Db 200 CVCYCK 205

RESULT 43
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
;
US-09-485-885-10

Query Match
Best Local Similarity 71.4%; Score 35; DB 2; Length 292;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8
Db 160 LECVYCK 166

RESULT 44
US-09-270-767-43213
; Sequence 43213, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43213
; LENGTH: 352
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-43213

Query Match
Best Local Similarity 75.0%; Score 35; DB 2; Length 352;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCK 8
Db 65 EITCVYCK 72
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RESULT 45  
US-09-485-885-6  
Sequence 6, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisee, Anne-Marie Eva Bernarde  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 6  
LENGTH: 371  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-6

Query Match 66.0%; Score 35; DB 2; Length 371;  
Best Local Similarity 71.4%; Pred. No. 3.2e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 141 LECVCK 147

RESULT 46  
US-09-485-885-14  
Sequence 14, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisee, Anne-Marie Eva Bernarde  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 14  
LENGTH: 390  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-14

Query Match 66.0%; Score 35; DB 2; Length 390;  
Best Local Similarity 71.4%; Pred. No. 3.3e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 160 LECVCK 166

RESULT 47  
US-09-717-364A-27

Sequence 27, Application US/09717364A  
Patent No. 6663872  
GENERAL INFORMATION:  
APPLICANT: Pitkovski, Jacob  
APPLICANT: Muallem, Margalit  
APPLICANT: Koren, Ziv Reil  
APPLICANT: Krisspel, Simcha  
APPLICANT: Shmueli, Esther  
APPLICANT: Peretz, Yifat  
APPLICANT: Gutier, Bezael  
APPLICANT: Galili, Gilad  
APPLICANT: Michael, Amnon  
APPLICANT: Goldberg, Doron  
TITLE OF INVENTION: HEMORRHAGIC ENTERITIS VIRUS DNA SEQUENCES, PROTEINS ENCODED THEREOF  
FILE REFERENCE: 1567/63655  
CURRENT APPLICATION NUMBER: US/09/717,364A  
CURRENT FILING DATE: 2000-11-20  
PRIOR APPLICATION NUMBER: IL124567  
PRIOR FILING DATE: 1998-05-20  
PRIOR APPLICATION NUMBER: PCT/IL9900268  
PRIOR FILING DATE: 1999-05-19  
NUMBER OF SEQ ID NOS: 42  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 27  
LENGTH: 1112  
TYPE: PRT  
ORGANISM: hemorhagic enteritis virus  
US-09-717-364A-27

Query Match 66.0%; Score 35; DB 2; Length 1112;  
Best Local Similarity 75.0%; Pred. No. 8.6e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVCK 8  
Db 994 EITCTCK 1001

RESULT 48  
US-08-159-339A-86  
Sequence 86, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Cells, Esteban  
TITLE OF INVENTION: HLA Binding peptides and Their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396

FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 86:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-86

Query Match 64.2%; Score 34; DB 2; Length 10;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVY 6  
Db 5 EITCVY 10

RESULT 49  
US-08-159-339A-575  
Sequence 575, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 575:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids

TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-575

Query Match 64.2%; Score 34; DB 2; Length 10;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVYCK 8  
Db 1 CVYCK 5

RESULT 50  
US-09-288-143-94  
Sequence 94, Application US/09288143  
Patent No. 6433139  
GENERAL INFORMATION:  
APPLICANT: Brewer et al.  
TITLE OF INVENTION: 53 Human Secreted Proteins  
FILE REFERENCE: P2018P1  
CURRENT APPLICATION NUMBER: US/09/288,143  
CURRENT FILING DATE: 1999-04-08  
EARLIER APPLICATION NUMBER: PCT/US98/21142  
EARLIER FILING DATE: 1998-10-08  
EARLIER APPLICATION NUMBER: 60/061,463  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,529  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/071,498  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,527  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,536  
EARLIER FILING DATE: 1997-10-09  
EARLIER APPLICATION NUMBER: 60/061,532  
EARLIER FILING DATE: 1997-10-09  
NUMBER OF SEQ ID NOS: 219  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 94  
LENGTH: 25  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (25)  
OTHER INFORMATION: Xaa equals stop translation  
US-09-288-143-94

Query Match 64.2%; Score 34; DB 2; Length 25;  
Best Local Similarity 100.0%; Pred. No. 40;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCVCY 7  
Db 3 TCVCY 7

Search completed: May 5, 2006, 06:24:02  
Job time: 23.9 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds  
(without alignments)  
66.793 Million cell updates/sec

Title: US-08-170-344-24  
Perfect score: 53  
Sequence: 1 EITGVCKT 9

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Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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6: /cgn2\_6/ptodata/1/pubppaa/US11\_PUBCOMB.rep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	100.0	42	5	US-10-751-845-152
2	53	100.0	119	5	US-10-751-845-159
3	53	100.0	158	5	US-10-800-023-27
4	53	100.0	158	6	US-11-021-949-28
5	53	100.0	172	4	US-10-472-724-6
6	53	100.0	236	5	US-10-751-845-157
7	53	100.0	237	5	US-10-751-845-158
8	53	100.0	261	5	US-10-751-845-160
9	53	100.0	278	4	US-10-000-903-21
10	53	100.0	278	4	US-10-899-771-21
11	53	100.0	383	4	US-10-000-903-23
12	53	100.0	383	5	US-10-899-771-23
13	45	84.9	625	4	US-10-408-765A-2049
14	45	84.9	734	4	US-10-408-765A-324
15	45	84.9	734	5	US-10-723-860-297
16	45	84.9	734	5	US-10-408-765A-2050
17	42	79.2	158	6	US-11-021-949-361
18	41	77.4	314	3	US-09-949-029-381
19	41	77.4	314	6	US-11-097-143-31539
20	40	75.5	677	5	US-10-450-763-37731
21	40	75.5	727	4	US-10-108-260A-3060
22	40	75.5	3572	4	US-10-471-450-16
23	39	73.6	10	5	US-10-751-845-139
24	39	73.6	151	6	US-11-021-949-24
25	39	73.6	230	3	US-09-815-242-13432
26	39	73.6	290	3	US-09-815-242-13659
27	39	73.6	290	3	US-09-769-787-153

28	39	73.6	290	4	US-10-282-122A-74226	Sequence 74226, A
29	39	73.6	290	5	US-10-472-928-4594	Sequence 4594, A
30	39	73.6	305	5	US-10-617-320-2649	Sequence 2649, Ap
31	38	71.7	95	4	US-10-425-115-276810	Sequence 276810,
32	38	71.7	123	4	US-10-425-115-276807	Sequence 276807,
33	38	71.7	150	6	US-11-021-949-27	Sequence 27,
34	38	71.7	151	6	US-11-021-949-25	Sequence 25, Appl
35	38	71.7	151	6	US-11-021-949-26	Sequence 26, Appl
36	38	71.7	158	6	US-11-021-949-29	Sequence 29, Appl
37	38	71.7	1366	6	US-11-097-143-32502	Sequence 23502, A
38	37	69.8	45	4	US-10-424-599-200471	Sequence 200471,
39	37	69.8	52	4	US-10-424-599-193040	Sequence 193040,
40	37	69.8	55	4	US-10-425-114-44730	Sequence 44730, A
41	37	69.8	55	4	US-10-425-115-191172	Sequence 191172,
42	37	69.8	64	4	US-10-437-963-139053	Sequence 139053,
43	37	69.8	70	4	US-10-424-599-249892	Sequence 249892,
44	37	69.8	137	4	US-10-437-963-124482	Sequence 124482,
45	37	69.8	147	4	US-10-369-493-11069	Sequence 11069, A
46	37	69.8	153	6	US-11-021-949-22	Sequence 22, Appl
47	37	69.8	155	6	US-11-021-949-23	Sequence 23, Appl
48	37	69.8	155	6	US-09-895-913A-330	Sequence 330, App
49	37	69.8	183	3	US-09-815-242-11324	Sequence 11324, A
50	37	69.8	328	4	US-10-282-122A-58706	Sequence 58706, A
51	37	69.8	328	4	US-10-335-977-6995	Sequence 6995, Ap
52	37	69.8	328	4	US-10-282-122A-54453	Sequence 54453, A
53	37	69.8	330	4	US-10-335-977-6996	Sequence 6996, Ap
54	37	69.8	68	4	US-10-424-599-239799	Sequence 239799,
55	36	67.9	116	4	US-10-114-893-170	Sequence 170, App
56	36	67.9	148	6	US-10-437-963-103599	Sequence 103599,
57	36	67.9	149	6	US-11-021-949-359	Sequence 359, App
58	36	67.9	149	6	US-11-021-949-14	Sequence 14, Appl
59	36	67.9	149	6	US-11-021-949-18	Sequence 18, Appl
60	36	67.9	222	4	US-10-425-115-317438	Sequence 317438,
61	36	67.9	405	3	US-09-768-781-6	Sequence 6,
62	36	67.9	509	5	US-10-450-763-53674	Sequence 53674, A
63	36	67.9	650	6	US-11-097-143-39006	Sequence 39006, A
64	36	67.9	650	6	US-10-994-727-6	Sequence 6, Appl1
65	36	67.9	1325	4	US-10-425-115-317439	Sequence 317439,
66	36	67.9	1987	6	US-11-097-143-10041	Sequence 10041, A
67	36	67.9	2054	5	US-10-450-763-53682	Sequence 53682, A
68	36	67.9	2273	5	US-10-450-763-53663	Sequence 53663, A
69	36	67.9	5909	5	US-10-450-763-53654	Sequence 53654, A
70	36	67.9	6619	5	US-10-450-763-53688	Sequence 53688, A
71	36	67.9	15	4	US-10-476-570-23	Sequence 23, Appl
72	35	66.0	21	4	US-10-476-570-24	Sequence 24, Appl
73	35	66.0	21	4	US-10-476-570-10	Sequence 10, Appl
74	35	66.0	30	5	US-10-476-570-53	Sequence 53, Appl
75	35	66.0	30	5	US-10-858-384-4	Sequence 4, Appl1
76	35	66.0	32	4	US-10-476-570-9	Sequence 9, Appl1
77	35	66.0	33	4	US-10-476-570-19	Sequence 19, Appl
78	35	66.0	64	4	US-10-425-115-307694	Sequence 307694,
79	35	66.0	77	4	US-10-424-599-200212	Sequence 200212,
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81	35	66.0	149	5	US-10-450-763-36897	Sequence 36897, A
82	35	66.0	151	4	US-10-177-390-6	Sequence 6, Appl1
83	35	66.0	151	5	US-10-484-063-20	Sequence 20, Appl
84	35	66.0	151	5	US-10-484-063-27	Sequence 27, Appl
85	35	66.0	158	5	US-10-858-384-2	Sequence 2, Appl1
86	35	66.0	158	5	US-10-367-057-16	Sequence 16, Appl
87	35	66.0	158	5	US-11-021-949-13	Sequence 13, Appl
88	35	66.0	158	6	US-10-437-963-199213	Sequence 30, Appl
89	35	66.0	164	4	US-10-437-963-199213	Sequence 199213,
90	35	66.0	164	4	US-10-767-771-40552	Sequence 40552, A
91	35	66.0	164	4	US-10-437-963-199213	Sequence 25, Appl1
92	35	66.0	171	4	US-10-472-724-2	Sequence 2, Appl1
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94	35	66.0	238	4	US-10-282-122A-77745	Sequence 77745, A
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96	35	66.0	247	4	US-10-425-115-192033	Sequence 192033,
97	35	66.0	266	3	US-09-367-309A-1	Sequence 1, Appl1
98	35	66.0	273	5	US-10-000-903-4	Sequence 4, Appl1
99	35	66.0	273	5	US-10-899-771-4	Sequence 4, Appl1
100	35	66.0	292	4	US-10-000-903-10	Sequence 10, Appl

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103	35	66.0	323	4	US-10-425-114-69151	Sequence 69151, A	176	34	64.2	583	4	US-10-282-122A-47550	Sequence 47550, A
104	35	66.0	351	4	US-10-369-493-6508	Sequence 6508, Ap	177	34	64.2	585	4	US-10-282-122A-65790	Sequence 65790, A
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107	35	66.0	371	4	US-10-000-903-6	Sequence 6, Appl1	180	34	64.2	617	4	US-10-408-765A-585	Sequence 585, App
108	35	66.0	371	5	US-10-899-771-6	Sequence 6, Appl1	181	34	64.2	645	4	US-10-437-963-123998	Sequence 123998, A
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111	35	66.0	390	4	US-10-424-599-266022	Sequence 266022, A	184	34	64.2	909	4	US-10-408-765A-1941	Sequence 1941, Ap
112	35	66.0	390	5	US-10-899-771-14	Sequence 14, Appl1	185	34	64.2	1118	4	US-10-437-963-125420	Sequence 125420, A
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115	35	66.0	488	4	US-10-282-122A-47123	Sequence 47123, A	188	34	64.2	1332	6	US-11-097-143-14703	Sequence 14703, A
116	35	66.0	536	4	US-10-367-095-10	Sequence 10, Appl1	189	34	64.2	1350	4	US-10-437-963-125423	Sequence 125423, A
117	35	66.0	536	4	US-10-368-046-10	Sequence 10, Appl1	190	34	64.2	1839	6	US-11-097-143-19440	Sequence 19440, A
118	35	66.0	536	4	US-10-367-367-10	Sequence 10, Appl1	191	33	62.3	31	4	US-10-195-730-302	Sequence 302, App
119	35	66.0	536	6	US-10-918-337-10	Sequence 10, Appl1	192	33	62.3	31	4	US-10-799-747-302	Sequence 302, App
120	35	66.0	552	6	US-11-097-143-14235	Sequence 14235, A	193	33	62.3	31	5	US-10-979-183-302	Sequence 302, App
121	35	66.0	554	4	US-10-437-963-144217	Sequence 144217, A	194	33	62.3	45	4	US-10-138-618-11	Sequence 11, Appl1
122	35	66.0	656	4	US-10-311-034-5	Sequence 5, Appl1	195	33	62.3	45	4	US-10-138-618-12	Sequence 11, Appl1
123	35	66.0	712	4	US-10-425-115-301230	Sequence 301230, A	196	33	62.3	45	6	US-11-064-496-11	Sequence 11, Appl1
124	35	66.0	723	4	US-10-083-357-1343	Sequence 1343, Ap	197	33	62.3	45	6	US-11-064-496-12	Sequence 12, Appl1
125	35	66.0	911	4	US-10-115-482-50	Sequence 50, Appl1	198	33	62.3	47	4	US-10-425-115-191220	Sequence 191220, A
126	35	66.0	915	4	US-10-115-482-48	Sequence 48, Appl1	199	33	62.3	58	3	US-09-864-761-36239	Sequence 36239, A
127	35	66.0	1365	5	US-10-719-993-815	Sequence 815, App	200	33	62.3	58	4	US-10-425-115-302980	Sequence 302980, A
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129	35	66.0	1824	4	US-10-335-687A-5	Sequence 5, Appl1	202	33	62.3	67	3	US-09-201-936-11	Sequence 11, Appl1
130	35	66.0	2534	4	US-10-618-941-117	Sequence 117, App	203	33	62.3	67	4	US-10-600-272-11	Sequence 14, Appl1
131	35	66.0	2931	6	US-11-097-143-31479	Sequence 31479, A	204	33	62.3	67	4	US-10-600-272-11	Sequence 14, Appl1
132	34	64.2	10	5	US-10-484-063-3	Sequence 3, Appl1	205	33	62.3	70	4	US-10-424-599-183381	Sequence 183381, A
133	34	64.2	15	4	US-10-476-570-25	Sequence 25, Appl1	206	33	62.3	94	4	US-10-424-599-247465	Sequence 247465, A
134	34	64.2	24	3	US-09-984-429-94	Sequence 94, Appl1	207	33	62.3	101	4	US-10-424-599-254488	Sequence 254488, A
135	34	64.2	25	4	US-10-150-111-94	Sequence 94, Appl1	208	33	62.3	106	4	US-10-437-963-166100	Sequence 166100, A
136	34	64.2	47	4	US-10-106-698-7239	Sequence 7239, Ap	209	33	62.3	108	4	US-10-425-115-125115	Sequence 125115, A
137	34	64.2	52	4	US-10-424-599-196065	Sequence 196065, A	210	33	62.3	114	4	US-10-437-963-134058	Sequence 134058, A
138	34	64.2	56	4	US-10-425-114-37812	Sequence 37812, A	211	33	62.3	128	4	US-10-437-963-107143	Sequence 107143, A
139	34	64.2	63	4	US-10-767-701-52040	Sequence 52040, A	212	33	62.3	124	4	US-10-425-115-355127	Sequence 355127, A
140	34	64.2	72	4	US-10-425-115-311478	Sequence 311478, A	213	33	62.3	133	3	US-09-864-761-40061	Sequence 40061, A
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142	34	64.2	75	4	US-10-424-599-36466	Sequence 36466, A	215	33	62.3	151	4	US-10-369-493-18168	Sequence 18168, A
143	34	64.2	99	4	US-10-767-701-52377	Sequence 52377, A	216	33	62.3	157	4	US-10-425-115-329768	Sequence 329768, A
144	34	64.2	102	4	US-10-425-115-196754	Sequence 196754, A	217	33	62.3	162	4	US-10-195-730-296	Sequence 296, App
145	34	64.2	113	4	US-10-437-963-116198	Sequence 116198, A	218	33	62.3	162	4	US-10-799-747-296	Sequence 296, App
146	34	64.2	118	4	US-10-264-237-1460	Sequence 1460, Ap	219	33	62.3	165	4	US-10-979-183-296	Sequence 296, App
147	34	64.2	148	4	US-10-424-599-279965	Sequence 279965, A	220	33	62.3	165	4	US-10-424-599-190317	Sequence 190317, A
148	34	64.2	156	4	US-10-425-115-355263	Sequence 355263, A	221	33	62.3	172	4	US-10-041-859-10	Sequence 8, Appl1
149	34	64.2	160	6	US-11-021-949-32	Sequence 32, Appl1	222	33	62.3	172	4	US-10-041-859-10	Sequence 10, Appl1
150	34	64.2	162	6	US-11-021-949-31	Sequence 31, Appl1	223	33	62.3	172	4	US-10-041-859-11	Sequence 11, Appl1
151	34	64.2	278	4	US-10-108-260A-4876	Sequence 4876, Ap	224	33	62.3	172	4	US-10-424-599-280953	Sequence 280953, A
152	34	64.2	282	4	US-10-437-963-138109	Sequence 138109, A	225	33	62.3	174	4	US-10-424-599-280953	Sequence 280953, A
153	34	64.2	312	4	US-10-198-070-81	Sequence 81, Appl1	226	33	62.3	187	4	US-10-424-599-214214	Sequence 214214, A
154	34	64.2	312	5	US-10-450-763-43153	Sequence 43153, A	227	33	62.3	205	3	US-09-740-668A-34	Sequence 34, Appl1
155	34	64.2	323	4	US-10-425-115-290705	Sequence 290705, A	228	33	62.3	205	3	US-10-437-963-181160	Sequence 181160, A
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157	34	64.2	341	5	US-10-450-763-43154	Sequence 43154, A	230	33	62.3	211	5	US-10-282-122A-35847	Sequence 35847, A
158	34	64.2	343	4	US-10-282-122A-53379	Sequence 53379, A	231	33	62.3	229	3	US-09-741-669-355	Sequence 355, App
159	34	64.2	347	5	US-10-650-274-101	Sequence 101, App	232	33	62.3	226	3	US-10-282-122A-73288	Sequence 73288, A
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161	34	64.2	427	4	US-10-282-122A-58849	Sequence 58849, A	234	33	62.3	236	4	US-10-425-115-327594	Sequence 327594, A
162	34	64.2	427	4	US-10-282-122A-59023	Sequence 59023, A	235	33	62.3	237	4	US-10-282-122A-55949	Sequence 55949, A
163	34	64.2	433	4	US-10-104-047-7033	Sequence 7033, Ap	236	33	62.3	237	4	US-10-282-122A-55873	Sequence 55873, A
164	34	64.2	483	4	US-10-424-599-445827	Sequence 445827, A	237	33	62.3	237	4	US-10-282-122A-73288	Sequence 73288, A
165	34	64.2	485	4	US-10-425-114-54017	Sequence 54017, A	238	33	62.3	239	4	US-10-425-115-234321	Sequence 234321, A
166	34	64.2	549	4	US-10-156-761-11028	Sequence 11028, A	239	33	62.3	239	4	US-10-425-115-327594	Sequence 327594, A
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168	34	64.2	551	4	US-10-282-122A-69869	Sequence 69869, A	241	33	62.3	250	4	US-10-282-122A-177468	Sequence 177468, A
169	34	64.2	553	4	US-10-282-122A-63022	Sequence 63022, A	242	33	62.3	250	4	US-10-425-115-318737	Sequence 318737, A
170	34	64.2	554	4	US-10-282-122A-68126	Sequence 68126, A	243	33	62.3	254	4	US-10-243-552-969	Sequence 969, App
171	34	64.2	557	4	US-10-320-797-3251	Sequence 3251, Ap	244	33	62.3	255	4	US-10-425-114-433480	Sequence 433480, A
172	34	64.2	557	4	US-10-282-122A-48000	Sequence 48000, A	245	33	62.3	260	3	US-09-858-546-5	Sequence 5, Appl1
173	34	64.2	557	4	US-10-282-122A-50748	Sequence 50748, A	246	33	62.3	260	3	US-09-858-546-5	Sequence 5, Appl1

247	33	62.3	260	5	US-10-723-860-2156	Sequence 2156, Ap	320	32	60.4	51	4	US-10-425-115-292981	Sequence 292981, A
248	33	62.3	263	5	US-10-450-763-40162	Sequence 40162, A	321	32	60.4	53	4	US-10-029-386-27423	Sequence 27423, A
249	33	62.3	268	4	US-10-323-643-10	Sequence 10, Appl	322	32	60.4	58	4	US-10-335-977-8769	Sequence 8769, Ap
250	33	62.3	275	3	US-09-201-996-12	Sequence 12, Appl	323	32	60.4	59	3	US-09-854-864-20	Sequence 20, Appl
251	33	62.3	275	4	US-10-323-643-9	Sequence 9, Appl	324	32	60.4	59	3	US-09-855-158-20	Sequence 15, Appl
252	33	62.3	275	4	US-10-600-272-12	Sequence 12, Appl	325	32	60.4	67	3	US-09-854-864-16	Sequence 16, Appl
253	33	62.3	286	4	US-10-425-115-270165	Sequence 270165, A	326	32	60.4	67	3	US-09-855-158-16	Sequence 15, Appl
254	33	62.3	295	4	US-10-437-963-181157	Sequence 181157, A	327	32	60.4	67	4	US-10-424-599-149209	Sequence 149209, A
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256	33	62.3	318	4	US-10-282-122A-67800	Sequence 67800, A	329	32	60.4	73	4	US-10-425-115-125240	Sequence 125240, A
257	33	62.3	321	6	US-11-097-143-24552	Sequence 24552, A	330	32	60.4	75	4	US-10-425-115-190299	Sequence 190299, A
258	33	62.3	334	4	US-10-276-774-2054	Sequence 2054, Ap	331	32	60.4	78	4	US-10-106-698-5258	Sequence 5258, Ap
259	33	62.3	334	5	US-10-450-763-40163	Sequence 40163, A	332	32	60.4	80	4	US-10-424-599-153200	Sequence 153200, A
260	33	62.3	341	4	US-10-369-493-355	Sequence 355, App	333	32	60.4	80	4	US-10-437-963-163261	Sequence 163261, A
261	33	62.3	343	4	US-10-282-122A-60799	Sequence 60799, A	334	32	60.4	86	4	US-10-424-599-258910	Sequence 258910, A
262	33	62.3	343	4	US-10-425-115-228357	Sequence 228357, A	335	32	60.4	89	4	US-10-424-599-251182	Sequence 251182, A
263	33	62.3	344	4	US-10-425-114-73013	Sequence 73013, A	336	32	60.4	94	5	US-10-450-763-38026	Sequence 38026, A
264	33	62.3	346	4	US-10-041-859-2	Sequence 2, Appl	337	32	60.4	95	4	US-10-425-115-551364	Sequence 221364, A
265	33	62.3	358	4	US-10-425-115-195528	Sequence 195528, A	338	32	60.4	98	4	US-10-424-599-244407	Sequence 244407, A
266	33	62.3	363	4	US-10-282-122A-50322	Sequence 50322, A	339	32	60.4	100	3	US-10-425-115-232071	Sequence 232071, A
267	33	62.3	368	6	US-11-097-143-33531	Sequence 33531, A	340	32	60.4	101	4	US-09-764-891-4011	Sequence 4011, Ap
268	33	62.3	395	4	US-10-282-122A-44969	Sequence 44969, A	341	32	60.4	104	4	US-10-425-115-256828	Sequence 256828, A
269	33	62.3	438	3	US-09-950-902-2	Sequence 2, Appl	342	32	60.4	104	4	US-10-264-237-1843	Sequence 1843, Ap
270	33	62.3	438	4	US-10-262-445-34	Sequence 34, Appl	343	32	60.4	104	5	US-10-471-009A-14	Sequence 14, Appl
271	33	62.3	438	4	US-10-262-445-34	Sequence 34, Appl	344	32	60.4	106	3	US-09-908-855-39	Sequence 203160, A
272	33	62.3	455	6	US-11-097-143-12477	Sequence 12477, A	345	32	60.4	107	4	US-10-425-115-203160	Sequence 203160, A
273	33	62.3	464	4	US-10-424-599-228052	Sequence 228052, A	346	32	60.4	115	4	US-10-282-122A-43346	Sequence 43346, A
274	33	62.3	521	4	US-10-162-335-36	Sequence 36, Appl	347	32	60.4	115	4	US-10-282-122A-68813	Sequence 68813, A
275	33	62.3	530	3	US-09-858-546-2	Sequence 2, Appl	348	32	60.4	115	4	US-10-282-122A-73354	Sequence 73354, A
276	33	62.3	533	4	US-10-258-951-63	Sequence 63, Appl	349	32	60.4	115	4	US-10-282-122A-74849	Sequence 74849, A
277	33	62.3	533	5	US-09-757-041-2	Sequence 63, Appl	350	32	60.4	115	4	US-10-282-122A-75410	Sequence 75410, A
278	33	62.3	543	3	US-10-990-000-63	Sequence 2, Appl	351	32	60.4	123	4	US-10-282-122A-68104	Sequence 68104, A
279	33	62.3	543	5	US-10-004-378A-35	Sequence 35, Appl	352	32	60.4	124	4	US-10-282-122A-69961	Sequence 69961, A
280	33	62.3	543	5	US-10-741-600-1360	Sequence 1360, Ap	353	32	60.4	138	4	US-10-724-912A-5020	Sequence 5020, Ap
281	33	62.3	566	2	US-08-813-323A-1	Sequence 1, Appl	354	32	60.4	141	4	US-10-424-599-352791	Sequence 352791, A
282	33	62.3	567	4	US-10-242-212-7	Sequence 7, Appl	355	32	60.4	142	4	US-10-618-797-2	Sequence 2, Appl
283	33	62.3	567	4	US-10-207-655-103	Sequence 103, App	356	32	60.4	150	5	US-10-367-057-11	Sequence 11, Appl
284	33	62.3	568	2	US-08-813-323A-2	Sequence 2, Appl	357	32	60.4	154	6	US-11-021-949-21	Sequence 21, Appl
285	33	62.3	568	4	US-10-116-275-173	Sequence 173, App	358	32	60.4	162	3	US-10-369-483-22912	Sequence 22912, A
286	33	62.3	568	4	US-10-004-378A-36	Sequence 36, Appl	359	32	60.4	162	4	US-09-854-864-15	Sequence 15, Appl
287	33	62.3	568	4	US-10-042-865-166	Sequence 166, App	360	32	60.4	166	3	US-09-855-186-15	Sequence 15, Appl
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289	33	62.3	568	5	US-10-741-600-1359	Sequence 1359, Ap	362	32	60.4	167	6	US-11-079-418-6	Sequence 6, Appl
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296	33	62.3	666	6	US-11-097-143-29598	Sequence 29598, A	369	32	60.4	196	4	US-10-437-963-146231	Sequence 146231, A
297	33	62.3	777	4	US-10-437-963-177190	Sequence 177190, A	370	32	60.4	196	5	US-10-437-963-56515	Sequence 56515, A
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569	31	58.5	64	4	US-10-437-963-148056	Sequence 148056,	642	31	58.5	177	3	US-10-437-963-164402	Sequence 164402,
570	31	58.5	65	4	US-10-425-115-256853	Sequence 256853,	643	31	58.5	177	4	US-10-970-713-166	Sequence 166, App
571	31	58.5	67	4	US-10-424-599-239259	Sequence 239259,	644	31	58.5	181	4	US-10-389-566-417	Sequence 417, App
572	31	58.5	68	3	US-09-764-855-95	Sequence 95, Appl	645	31	58.5	181	4	US-10-437-963-186185	Sequence 186185,
573	31	58.5	68	4	US-10-072-349-95	Sequence 318856,	646	31	58.5	181	4	US-09-764-868-787	Sequence 787, App
574	31	58.5	69	4	US-10-425-115-318856	Sequence 318856,	647	31	58.5	183	3	US-10-282-122A-52037	Sequence 52037, A
575	31	58.5	69	4	US-10-425-115-345367	Sequence 345367,	648	31	58.5	184	3	US-10-450-763-44606	Sequence 44606, A
576	31	58.5	70	4	US-10-425-115-205163	Sequence 205163,	649	31	58.5	192	5	US-10-437-963-183702	Sequence 183702,
577	31	58.5	72	4	US-10-437-963-183602	Sequence 183602,	650	31	58.5	194	5	US-10-437-963-118372	Sequence 118372,
578	31	58.5	73	4	US-10-425-115-187892	Sequence 187892,	651	31	58.5	195	4	US-10-425-114-63173	Sequence 63173, A
579	31	58.5	74	4	US-10-425-115-313236	Sequence 313236,	652	31	58.5	198	5	US-10-494-921-51	Sequence 92151, App
580	31	58.5	77	4	US-10-424-599-243601	Sequence 243601,	653	31	58.5	209	4	US-10-425-114-41999	Sequence 41999, A
581	31	58.5	79	4	US-10-424-599-283010	Sequence 283010,	654	31	58.5	211	4	US-10-425-115-185809	Sequence 185809,
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583	31	58.5	80	4	US-10-425-115-299560	Sequence 299560,	656	31	58.5	218	4	US-10-274-639-19	Sequence 19, Appl
584	31	58.5	81	4	US-10-106-698-5181	Sequence 5181, Ap	657	31	58.5	218	4	US-10-333-574-19	Sequence 19, Appl
585	31	58.5	81	4	US-10-156-761-13078	Sequence 13078, A	658	31	58.5	223	4	US-10-437-963-136188	Sequence 136188,
586	31	58.5	81	4	US-10-425-115-273091	Sequence 273091,	659	31	58.5	226	3	US-09-764-875-681	Sequence 681, App
587	31	58.5	82	4	US-10-424-599-250479	Sequence 250479,	660	31	58.5	229	3	US-09-764-868-831	Sequence 831, App
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592	31	58.5	84	4	US-10-425-115-333022	Sequence 333022,	665	31	58.5	235	4	US-10-437-963-12664	Sequence 12664,
593	31	58.5	88	6	US-10-023-896-135	Sequence 135, App	666	31	58.5	242	4	US-10-437-963-132664	Sequence 132664,
594	31	58.5	89	4	US-10-106-698-4317	Sequence 4317, Ap	667	31	58.5	247	4	US-10-264-231-1943	Sequence 1943, Ap
595	31	58.5	89	4	US-10-425-114-40321	Sequence 40321, A	668	31	58.5	248	4	US-10-437-963-180407	Sequence 180407,
596	31	58.5	91	4	US-10-425-114-55618	Sequence 55618, A	669	31	58.5	251	4	US-10-424-599-190601	Sequence 190601,
597	31	58.5	91	4	US-10-425-115-272152	Sequence 272152,	670	31	58.5	252	3	US-09-795-668-28	Sequence 28, Appl
598	31	58.5	94	4	US-10-425-115-333291	Sequence 333291,	671	31	58.5	252	3	US-09-795-668-28	Sequence 28, Appl
599	31	58.5	95	4	US-10-022-609-12	Sequence 12, Appl	672	31	58.5	252	3	US-09-946-807-28	Sequence 28, Appl
600	31	58.5	97	4	US-10-437-963-103632	Sequence 103632,	673	31	58.5	254	5	US-10-995-011-28	Sequence 28, Appl
601	31	58.5	97	6	US-11-097-143-11368	Sequence 11368, A	674	31	58.5	257	4	US-10-369-493-2051	Sequence 2051, Ap
602	31	58.5	98	4	US-10-767-701-56715	Sequence 56715, A	675	31	58.5	261	4	US-10-424-599-221049	Sequence 221049,
603	31	58.5	100	3	US-09-755-665-40	Sequence 40, Appl	676	31	58.5	261	4	US-10-425-114-70547	Sequence 70547, A
604	31	58.5	100	4	US-10-424-599-277290	Sequence 277290,	677	31	58.5	263	5	US-10-706-635-15	Sequence 15, Appl
605	31	58.5	100	4	US-10-629-248-40	Sequence 40, Appl	678	31	58.5	264	6	US-11-097-143-34959	Sequence 34959, A
606	31	58.5	106	4	US-10-425-115-243148	Sequence 243148,	679	31	58.5	271	4	US-10-264-213-248	Sequence 248, App
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608	31	58.5	107	4	US-10-023-896-78	Sequence 78, Appl	681	31	58.5	290	4	US-09-776-407-2	Sequence 2, Appl1
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611	31	58.5	107	6	US-11-122-117-78	Sequence 78, Appl	684	31	58.5	303	4	US-10-112-944-326	Sequence 326, App

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686	31	58.5	316	4	US-10-437-963-137562	Sequence 137562, A	759	31	58.5	557	4	US-10-004-378A-34	Sequence 34, App1
687	31	58.5	324	4	US-10-425-114-40256	Sequence 40256, A	760	31	58.5	557	4	US-10-042-865-162	Sequence 162, App
688	31	58.5	327	4	US-10-424-599-175838	Sequence 175838, A	761	31	58.5	557	5	US-10-485-225-19	Sequence 19, App1
689	31	58.5	327	4	US-10-425-114-55415	Sequence 55415, A	762	31	58.5	568	4	US-10-262-445-132	Sequence 132, App
690	31	58.5	338	4	US-10-437-963-125709	Sequence 125709, A	763	31	58.5	568	4	US-10-042-865-38	Sequence 38, App1
691	31	58.5	342	5	US-10-450-763-47405	Sequence 47405, A	764	31	58.5	600	6	US-11-097-143-33540	Sequence 33540, A
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695	31	58.5	345	4	US-10-437-963-137545	Sequence 137545, A	768	31	58.5	629	3	US-09-795-668-14	Sequence 14, App1
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697	31	58.5	346	4	US-10-437-963-157334	Sequence 157334, A	770	31	58.5	632	3	US-09-795-668-16	Sequence 16, App1
698	31	58.5	350	5	US-10-995-011-38	Sequence 38, App1	771	31	58.5	632	3	US-09-795-668-16	Sequence 16, App1
699	31	58.5	351	4	US-10-108-260A-3961	Sequence 3961, App	772	31	58.5	632	3	US-09-946-807-16	Sequence 16, App1
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701	31	58.5	363	4	US-10-282-122A-66607	Sequence 66607, A	774	31	58.5	637	3	US-09-792-025-5	Sequence 5, App1
702	31	58.5	377	4	US-10-369-493-11131	Sequence 11131, A	775	31	58.5	637	3	US-09-795-668-13	Sequence 13, App1
703	31	58.5	383	3	US-09-953-348-100	Sequence 100, App	776	31	58.5	637	3	US-09-849-868-5	Sequence 5, App1
704	31	58.5	383	4	US-10-267-255-100	Sequence 100, App	777	31	58.5	637	3	US-09-795-668-13	Sequence 13, App1
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706	31	58.5	397	4	US-10-437-963-187241	Sequence 187241, A	779	31	58.5	637	4	US-10-453-183-5	Sequence 5, App1
707	31	58.5	400	5	US-10-739-930-8772	Sequence 8772, App	780	31	58.5	637	5	US-10-995-011-14	Sequence 14, App1
708	31	58.5	408	4	US-10-369-493-6303	Sequence 6303, App	781	31	58.5	640	5	US-10-995-011-16	Sequence 16, App1
709	31	58.5	410	4	US-10-425-114-68299	Sequence 68299, A	782	31	58.5	640	6	US-11-037-713-43	Sequence 43, App1
710	31	58.5	410	4	US-10-437-963-139399	Sequence 139399, A	783	31	58.5	645	4	US-10-096-241-10	Sequence 10, App1
711	31	58.5	415	4	US-10-389-647-474	Sequence 474, App	784	31	58.5	645	4	US-10-082-747A-93	Sequence 93, App1
712	31	58.5	418	4	US-10-094-749-2584	Sequence 2584, App	785	31	58.5	645	4	US-10-207-498-4	Sequence 4, App1
713	31	58.5	420	3	US-09-773-517-9	Sequence 9, App1	786	31	58.5	645	4	US-10-609-370-3	Sequence 3, App1
714	31	58.5	420	3	US-09-792-025-9	Sequence 9, App1	787	31	58.5	645	5	US-10-699-227-10	Sequence 10, App1
715	31	58.5	420	3	US-09-849-868-9	Sequence 9, App1	788	31	58.5	645	5	US-10-995-011-13	Sequence 13, App1
716	31	58.5	420	4	US-10-453-183-9	Sequence 9, App1	789	31	58.5	645	6	US-11-037-713-44	Sequence 44, App1
717	31	58.5	422	4	US-10-086-241-9	Sequence 9, App1	790	31	58.5	663	5	US-10-450-763-35336	Sequence 35336, A
718	31	58.5	422	5	US-10-899-227-9	Sequence 9, App1	791	31	58.5	669	3	US-09-773-517-1	Sequence 1, App1
719	31	58.5	423	4	US-10-292-951-58	Sequence 38, App1	792	31	58.5	669	3	US-09-792-025-1	Sequence 1, App1
720	31	58.5	423	3	US-10-382-844-38	Sequence 38, App1	793	31	58.5	669	3	US-09-849-868-1	Sequence 1, App1
721	31	58.5	426	3	US-09-764-864-809	Sequence 809, App	794	31	58.5	669	4	US-10-022-609-11	Sequence 11, App1
722	31	58.5	427	6	US-11-097-143-23118	Sequence 23118, A	795	31	58.5	699	4	US-10-453-183-1	Sequence 1, App1
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729	31	58.5	457	3	US-09-986-621-1	Sequence 1, App1	802	31	58.5	708	4	US-10-275-107-45	Sequence 45, App1
730	31	58.5	457	3	US-09-986-621-10	Sequence 10, App1	803	31	58.5	708	4	US-10-333-574-16	Sequence 16, App1
731	31	58.5	457	3	US-09-986-625-1	Sequence 1, App1	804	31	58.5	735	4	US-10-390-585-2	Sequence 2, App1
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734	31	58.5	457	4	US-10-382-844-1	Sequence 10, App1	807	31	58.5	791	5	US-10-480-068-26	Sequence 26, App1
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742	31	58.5	481	4	US-10-437-963-104390	Sequence 104390, A	815	31	58.5	1047	5	US-10-839-016-37	Sequence 37, App1
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745	31	58.5	498	3	US-09-925-302-475	Sequence 475, App	818	31	58.5	1164	4	US-10-333-314-11	Sequence 11, App1
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747	31	58.5	513	4	US-10-437-963-145068	Sequence 145068, A	820	31	58.5	1216	4	US-10-389-566-2140	Sequence 2140, App
748	31	58.5	515	4	US-10-156-761-11280	Sequence 11280, A	821	31	58.5	1217	4	US-10-437-963-186751	Sequence 186751, A
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750	31	58.5	526	4	US-10-042-865-50	Sequence 50, App	823	31	58.5	1476	6	US-10-177-293-364	Sequence 364, App
751	31	58.5	526	4	US-10-424-539-225865	Sequence 225865, A	824	31	58.5	1544	4	US-10-334-726-324	Sequence 324, App
752	31	58.5	526	4	US-10-437-963-145070	Sequence 145070, A	825	31	58.5	1544	4	US-10-788-792-138	Sequence 138, App
753	31	58.5	538	4	US-10-042-865-163	Sequence 163, App	826	31	58.5	1616	5	US-10-723-860-881	Sequence 881, App
754	31	58.5	542	4	US-10-437-963-199543	Sequence 199543, A	827	31	58.5	1616	5	US-10-723-860-881	Sequence 881, App
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833	31	58.5	2228	5	US-10-745-237-96	Sequence 96, Appl	906	30	56.6	93	4	US-10-437-963-141918	Sequence 141918,
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835	30.5	57.5	45	4	US-10-424-599-232923	Sequence 232923,	908	30	56.6	95	4	US-10-424-599-175714	Sequence 175714,
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843	30	56.6	25	4	US-10-280-066-184	Sequence 184, Appl	916	30	56.6	103	5	US-09-978-360A-767	Sequence 16, Appl
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848	30	56.6	40	4	US-10-425-115-313016	Sequence 1199826,	921	30	56.6	110	4	US-10-425-115-153918	Sequence 1994, Ap
849	30	56.6	42	4	US-10-424-599-199826	Sequence 199826,	922	30	56.6	112	3	US-09-796-692-2233	Sequence 2233, Ap
850	30	56.6	43	4	US-10-424-599-261908	Sequence 261908,	923	30	56.6	112	4	US-10-040-862-1994	Sequence 1994, Ap
851	30	56.6	44	4	US-10-424-599-189650	Sequence 189650,	924	30	56.6	112	4	US-10-040-862-2233	Sequence 2233, Ap
852	30	56.6	45	4	US-10-425-115-270112	Sequence 270112,	925	30	56.6	112	4	US-10-057-475B-1994	Sequence 1994, Ap
853	30	56.6	46	4	US-10-425-115-303661	Sequence 303661,	926	30	56.6	112	4	US-10-057-475B-2233	Sequence 2233, Ap
854	30	56.6	47	4	US-10-424-599-15547	Sequence 155547,	927	30	56.6	112	4	US-10-154-884B-1994	Sequence 1994, Ap
855	30	56.6	47	4	US-10-425-115-251122	Sequence 251122,	928	30	56.6	112	4	US-10-154-884B-2233	Sequence 2233, Ap
856	30	56.6	49	5	US-10-719-993-517	Sequence 517, App	929	30	56.6	112	4	US-10-764-324-1994	Sequence 1994, Ap
857	30	56.6	49	5	US-10-719-993-518	Sequence 518, App	930	30	56.6	112	4	US-10-764-324-2233	Sequence 2233, Ap
858	30	56.6	50	3	US-09-998-667-10	Sequence 10, Appl	931	30	56.6	113	4	US-10-425-115-202685	Sequence 202685,
859	30	56.6	50	3	US-09-899-495-62	Sequence 62, Appl	932	30	56.6	113	5	US-10-472-928-1058	Sequence 3058, App
860	30	56.6	51	4	US-10-425-115-275064	Sequence 275064,	933	30	56.6	116	3	US-09-746-783-222	Sequence 222, App
861	30	56.6	51	4	US-09-933-767-290	Sequence 290, App	934	30	56.6	116	3	US-09-746-783-222	Sequence 46885, A
862	30	56.6	51	4	US-10-004-860-290	Sequence 290, App	935	30	56.6	116	4	US-10-425-114-6885	Sequence 12, Appl
863	30	56.6	51	4	US-10-023-282-290	Sequence 290, App	936	30	56.6	117	2	US-08-976-063C-12	Sequence 12, Appl
864	30	56.6	51	4	US-10-437-963-167860	Sequence 167860,	937	30	56.6	117	4	US-09-750-966D-12	Sequence 151915,
865	30	56.6	51	4	US-10-450-763-39850	Sequence 39850, A	938	30	56.6	117	4	US-10-424-599-151915	Sequence 201942,
866	30	56.6	59	4	US-10-424-599-112174	Sequence 172174,	939	30	56.6	118	4	US-10-437-963-201942	Sequence 206679,
867	30	56.6	60	3	US-09-867-550-2042	Sequence 2042, Ap	940	30	56.6	118	4	US-10-425-115-205679	Sequence 230408,
868	30	56.6	60	4	US-10-425-114-53116	Sequence 53116, A	941	30	56.6	119	4	US-10-425-115-317885	Sequence 317885,
869	30	56.6	60	4	US-10-425-115-216246	Sequence 216246,	942	30	56.6	119	4	US-10-425-115-213620	Sequence 213620,
870	30	56.6	62	3	US-09-764-891-2763	Sequence 2763, Ap	943	30	56.6	120	5	US-10-617-320-3440	Sequence 3440, App
871	30	56.6	62	4	US-10-091-572-224	Sequence 224, App	944	30	56.6	120	5	US-09-978-360A-494	Sequence 494, App
872	30	56.6	63	4	US-10-424-599-222570	Sequence 222570,	945	30	56.6	121	4	US-10-437-963-145167	Sequence 145167,
873	30	56.6	64	4	US-10-437-963-145621	Sequence 145621,	946	30	56.6	121	4	US-10-424-599-217746	Sequence 217746,
874	30	56.6	67	3	US-09-864-761-46978	Sequence 46978, A	947	30	56.6	122	4	US-10-351-334-189	Sequence 189, App
875	30	56.6	67	3	US-09-764-869-1072	Sequence 1072, Ap	948	30	56.6	122	4	US-10-767-701-60935	Sequence 60935, A
876	30	56.6	67	4	US-10-091-504-1072	Sequence 1072, Ap	949	30	56.6	123	4	US-10-767-701-60935	Sequence 245751,
877	30	56.6	67	4	US-10-227-577-1072	Sequence 1072, Ap	950	30	56.6	123	4	US-10-425-115-355153	Sequence 42300, A
878	30	56.6	68	4	US-10-437-963-203636	Sequence 203636,	951	30	56.6	125	4	US-10-425-115-245751	Sequence 253745,
879	30	56.6	69	4	US-10-424-599-256404	Sequence 256404,	952	30	56.6	130	4	US-10-767-701-42300	Sequence 182660,
880	30	56.6	70	4	US-10-424-599-153227	Sequence 153227,	953	30	56.6	132	4	US-10-425-115-253745	Sequence 290131,
881	30	56.6	70	4	US-10-424-599-168728	Sequence 168728,	954	30	56.6	132	4	US-10-424-599-182860	Sequence 182860,
882	30	56.6	70	4	US-10-424-599-216259	Sequence 216259,	955	30	56.6	133	4	US-10-425-115-290131	Sequence 290131,
883	30	56.6	72	4	US-10-424-599-259101	Sequence 259101,	956	30	56.6	134	4	US-10-437-963-106779	Sequence 106779,
884	30	56.6	72	4	US-10-767-701-34172	Sequence 34172, A	957	30	56.6	135	4	US-10-425-115-318808	Sequence 318808,
885	30	56.6	73	4	US-10-424-599-149836	Sequence 149836,	958	30	56.6	136	3	US-09-925-299-1230	Sequence 1230, Ap
886	30	56.6	74	4	US-10-424-599-181259	Sequence 181259,	959	30	56.6	136	3	US-09-925-299-1230	Sequence 1230, Ap
887	30	56.6	74	4	US-10-424-599-237307	Sequence 237307,	960	30	56.6	136	3	US-10-767-701-41278	Sequence 41278, A
888	30	56.6	74	4	US-10-424-599-271752	Sequence 271752,	961	30	56.6	137	4	US-10-425-115-195020	Sequence 195020,
889	30	56.6	76	4	US-10-437-963-151465	Sequence 151465,	962	30	56.6	138	4	US-10-209-609-22	Sequence 22, Appl
890	30	56.6	77	4	US-10-425-115-230105	Sequence 230105,	963	30	56.6	138	4	US-10-425-115-318807	Sequence 318807,
891	30	56.6	78	4	US-10-425-115-281550	Sequence 281550,	964	30	56.6	140	4	US-10-425-115-263038	Sequence 263038,
892	30	56.6	78	4	US-09-864-761-34267	Sequence 34267, A	965	30	56.6	140	4	US-10-425-114-48347	Sequence 48347, A
893	30	56.6	79	4	US-10-424-599-151146	Sequence 151146,	966	30	56.6	141	4	US-10-739-930-7307	Sequence 7307, Ap
894	30	56.6	81	3	US-09-986-191-2	Sequence 2, Appl1	967	30	56.6	141	4	US-10-425-115-318807	Sequence 318807,
895	30	56.6	81	4	US-10-437-963-102896	Sequence 102896,	968	30	56.6	141	4	US-10-739-930-7307	Sequence 7307, Ap
896	30	56.6	82	4	US-10-425-115-185500	Sequence 185500,	969	30	56.6	141	4	US-10-739-930-7307	Sequence 7307, Ap
897	30	56.6	86	3	US-09-978-360A-476	Sequence 476, App	970	30	56.6	142	5	US-10-739-930-7307	Sequence 7307, Ap
898	30	56.6	86	3	US-09-978-360A-579	Sequence 579, App	971	30	56.6	143	3	US-10-739-930-7307	Sequence 7307, Ap
899	30	56.6	86	3	US-10-291-265-786	Sequence 786, App	972	30	56.6	143	3	US-10-739-930-7307	Sequence 7307, Ap
900	30	56.6	89	4	US-10-437-963-170724	Sequence 170724,	973	30	56.6	144	6	US-11-055-967-23	Sequence 23, Appl
901	30	56.6	89	4	US-10-767-701-56906	Sequence 56906, A	974	30	56.6	144	4	US-10-108-260A-8843	Sequence 2843, Ap
902	30	56.6	90	4	US-10-106-698-4808	Sequence 4808, Ap	975	30	56.6	144	4	US-10-437-963-168267	Sequence 168267,
903	30	56.6	90	4	US-10-424-599-197089	Sequence 197089,	976	30	56.6	147	3	US-09-764-891-2721	Sequence 2721, Ap

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977 30 56.6 147 4 US-10-425-114-48345 Sequence 48345, A
978 30 56.6 147 4 US-10-425-115-31806 Sequence 31806, A
979 30 56.6 148 4 US-10-437-963-185020 Sequence 185020, A
980 30 56.6 151 3 US-09-815-242-12507 Sequence 12507, A
981 30 56.6 151 5 US-10-889-934-8 Sequence 8, Appl1
982 30 56.6 151 5 US-10-913-228-8 Sequence 8, Appl1
983 30 56.6 152 4 US-10-437-963-160949 Sequence 160949, A
984 30 56.6 153 4 US-10-437-963-147023 Sequence 147023, A
985 30 56.6 153 4 US-10-437-963-189578 Sequence 189578, A
986 30 56.6 153 4 US-10-425-115-221965 Sequence 221965, A
987 30 56.6 153 4 US-10-425-115-318066 Sequence 318066, A
988 30 56.6 154 3 US-09-925-298-768 Sequence 768, App
989 30 56.6 154 4 US-10-102-806-768 Sequence 768, App
990 30 56.6 157 4 US-10-767-701-35900 Sequence 35900, A
991 30 56.6 159 4 US-10-425-114-62324 Sequence 62324, A
992 30 56.6 160 4 US-10-425-114-72763 Sequence 72763, A
993 30 56.6 161 4 US-10-425-114-36661 Sequence 36661, A
994 30 56.6 162 4 US-10-424-599-236450 Sequence 236450, A
995 30 56.6 164 3 US-09-764-864-1259 Sequence 1259, Ap
996 30 56.6 164 4 US-10-106-688-5545 Sequence 5545, Ap
997 30 56.6 165 4 US-10-767-701-61562 Sequence 61562, A
998 30 56.6 166 4 US-10-425-115-184862 Sequence 184862, A
999 30 56.6 166 5 US-10-739-930-5932 Sequence 5932, Ap
1000 30 56.6 167 5 US-10-450-763-40125 Sequence 40125, A
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## ALIGNMENTS

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RESULT 1
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751, 845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664, 225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169, 846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154, 665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-751-845-152

Query Match 100.0%; Score 53; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9
Db 21 EITCVYCKT 29

RESULT 2
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
```

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; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751, 845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664, 225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169, 846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154, 665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match 100.0%; Score 53; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 EITCVYCKT 9
Db 21 EITCVYCKT 29
```

```
RESULT 3
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONC1P1
; CURRENT APPLICATION NUMBER: US/10/800, 023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925, 284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586, 704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381, 528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

Query Match 100.0%; Score 53; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9
Db 29 EITCVYCKT 37

RESULT 4
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
```



APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 28  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-28

Query Match 100.0%; Score 53; DB 6; Length 158;  
Best Local Similarity 100.0%; Pred. No. 1.4;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
|||||  
Db 29 EITCVYCKT 37

RESULT 5  
US-10-472-724-6  
Sequence 6, Application US/10472724  
Publication No. US20040171806A1  
GENERAL INFORMATION:  
APPLICANT: Cid-Arregui, Angel  
APPLICANT: Zur Hausen, Harald  
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination  
FILE REFERENCE: 4121-154  
CURRENT APPLICATION NUMBER: US/10/472,724  
CURRENT FILING DATE: 2003-09-17  
PRIOR APPLICATION NUMBER: PCT/EPO2/03271  
PRIOR FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: EP 01107271.7  
PRIOR FILING DATE: 2001-03-23  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 6  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Construct  
US-10-472-724-6

Query Match 100.0%; Score 53; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 1.5;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
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Db 35 EITCVYCKT 43

RESULT 6  
US-10-751-845-157  
Sequence 157, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845

CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 157  
LENGTH: 236  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-157

Query Match 100.0%; Score 53; DB 5; Length 236;  
Best Local Similarity 100.0%; Pred. No. 2;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
|||||  
Db 138 EITCVYCKT 146

RESULT 7  
US-10-751-845-158  
Sequence 158, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 158  
LENGTH: 237  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-158

Query Match 100.0%; Score 53; DB 5; Length 237;  
Best Local Similarity 100.0%; Pred. No. 2;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVYCKT 9  
|||||  
Db 139 EITCVYCKT 147

RESULT 8  
US-10-751-845-160  
Sequence 160, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 160  
LENGTH: 261  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 53; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 2.2;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
Db 163 EITCVYCKT 171

RESULT 9  
US-10-000-903-21  
Sequence 21, Application US/10000903  
Publication No. US2002018222A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/10/000,903  
CURRENT FILING DATE: 2001-10-01  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 53; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
Db 140 EITCVYCKT 148

RESULT 10  
US-10-899-771-21  
Sequence 21, Application US/10899771  
Publication No. US20050031638A1  
GENERAL INFORMATION:  
APPLICANT: Dalemans, Wilfried L.J.  
APPLICANT: Gerard, Catherine Marie Ghislaine  
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide  
FILE REFERENCE: B45124  
CURRENT APPLICATION NUMBER: US/10/899,771

CURRENT FILING DATE: 2004-07-27  
PRIOR APPLICATION NUMBER: US/09/581,976  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: PCT/EP98/08563  
PRIOR FILING DATE: 1998-12-18  
PRIOR APPLICATION NUMBER: GB 9727262.9  
PRIOR FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
influenzae B and B6 from Human papilloma virus type  
18)  
US-10-899-771-21

Query Match 100.0%; Score 53; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
Db 140 EITCVYCKT 148

RESULT 11  
US-10-000-903-23  
Sequence 23, Application US/10000903  
Publication No. US2002018222A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/10/000,903  
CURRENT FILING DATE: 2001-10-01  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-000-903-23

Query Match 100.0%; Score 53; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 3.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
Db 140 EITCVYCKT 148

RESULT 12  
US-10-899-771-23  
Sequence 23, Application US/10899771  
Publication No. US20050031638A1  
GENERAL INFORMATION:  
APPLICANT: Dalemans, Wilfried L.J.  
APPLICANT: Gerard, Catherine Marie Ghislaine  
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide  
FILE REFERENCE: B45124

CURRENT APPLICATION NUMBER: US/10/899,771  
CURRENT FILING DATE: 2004-07-27  
PRIORITY APPLICATION NUMBER: US/09/581,976  
PRIORITY FILING DATE: 2000-06-20  
PRIORITY APPLICATION NUMBER: PCT/EP98/08563  
PRIORITY FILING DATE: 1998-12-18  
PRIORITY APPLICATION NUMBER: GB 9727262.9  
PRIORITY FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
OTHER INFORMATION: Influenzae B and B67 fusion from Human papilloma  
OTHER INFORMATION: Virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 53; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 3.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
Db 140 EITCVYCKT 148

RESULT 13  
US-10-408-765A-2049  
Sequence 2049, Application US/10408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fahy, Eoin D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary M.  
APPLICANT: Warnock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME  
FILE REFERENCE: 660088.465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2049  
LENGTH: 625  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: VARIANT  
LOCATION: 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376,  
LOCATION: 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388,  
LOCATION: 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400,  
LOCATION: 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411  
OTHER INFORMATION: Xaa = Any Amino Acid  
FEATURE:  
NAME/KEY: VARIANT  
LOCATION: 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423,  
LOCATION: 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435,  
LOCATION: 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447,  
LOCATION: 448, 449  
OTHER INFORMATION: Xaa = Any Amino Acid  
US-10-408-765A-2049

Query Match 84.9%; Score 45; DB 4; Length 625;  
Best Local Similarity 77.8%; Pred. No. 77;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1 EITCVYCKT 9

Db 464 EFTCAVYCKT 472

RESULT 14  
US-10-408-765A-324  
Sequence 324, Application US/10408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fahy, Eoin D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary M.  
APPLICANT: Warnock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME  
FILE REFERENCE: 660088.465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 324  
LENGTH: 734  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-408-765A-324

Query Match 84.9%; Score 45; DB 4; Length 734;  
Best Local Similarity 77.8%; Pred. No. 89;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
Db 581 EFTCAVYCKT 589

RESULT 15  
US-10-723-860-297  
Sequence 297, Application US/10723860  
Publication No. US20040253606A1  
GENERAL INFORMATION:  
APPLICANT: Aziz, Natsasha  
APPLICANT: Gineburg, Wendy M.  
APPLICANT: Zlotnick, Albert  
TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &  
TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators  
FILE REFERENCE: 05882.0193.NPUS01  
CURRENT APPLICATION NUMBER: US/10/723,860  
CURRENT FILING DATE: 2003-11-26  
PRIORITY APPLICATION NUMBER: 60/429,739  
PRIORITY FILING DATE: 2002-11-26  
NUMBER OF SEQ ID NOS: 8393  
SOFTWARE: Patcmln version 3.2  
SEQ ID NO 297  
LENGTH: 734  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-723-860-297

Query Match 84.9%; Score 45; DB 5; Length 734;  
Best Local Similarity 77.8%; Pred. No. 89;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVYCKT 9  
Db 581 EFTCAVYCKT 589

RESULT 16  
US-10-408-765A-2050  
Sequence 2050, Application US/10408765A

```
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fany, Robin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Martock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2050
; LENGTH: 735
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486,
; LOCATION: 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498,
; LOCATION: 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510,
; LOCATION: 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521
; OTHER INFORMATION: xaa = Any Amino Acid
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533,
; LOCATION: 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545,
; LOCATION: 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557,
; LOCATION: 558, 559
; OTHER INFORMATION: xaa = Any Amino Acid
; US-10-408-765A-2050
```

```
Query Match 84.9%; Score 45; DB 4; Length 735;
Best Local Similarity 77.8%; Pred. No. 89;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 EITCVYCKT 9
Db 574 EFTCAVCKT 582
```

```
RESULT 17
; US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GAMMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
; US-11-021-949-361
```

```
Query Match 79.2%; Score 42; DB 6; Length 158;
Best Local Similarity 87.5%; Pred. No. 66;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2 ITCVYCKT 9
Db 30 IDCYCKT 37
```

```
RESULT 18
; US-09-949-029-78
; Sequence 78, Application US/09949029
; Publication No. US20030134278A1
; GENERAL INFORMATION:
; APPLICANT: Karpen, G.H.
; APPLICANT: Dobie, K.W.
; APPLICANT: Kennedy, C.D.
; APPLICANT: Velasco, V.M.
; APPLICANT: McGrath, T.L.
; APPLICANT: Weko, J.
; APPLICANT: Patterson, R.W.
; TITLE OF INVENTION: Identification of chromosome inheritance modifiers in Drosophila
; TITLE OF INVENTION: melanogaster
; FILE REFERENCE: 1211.015US1
; CURRENT APPLICATION NUMBER: US/09/949,029
; CURRENT FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: US 60/231,178
; PRIOR FILING DATE: 2000-09-07
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-949-029-78
```

```
Query Match 77.4%; Score 41; DB 3; Length 314;
Best Local Similarity 66.7%; Pred. No. 17e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 EITCVYCKT 9
Db 115 DITCVYCKT 123
```

```
RESULT 19
; US-11-097-143-31539
; Sequence 31539, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
```

SEQ ID NO 31539  
LENGTH: 314  
TYPE: PRT  
ORGANISM: DROSOPHILA  
US-11-097-143-31539

Query Match 77.4%; Score 41; DB 6; Length 314;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCVCYCKT 9  
Db 115 DTCVCYCKT 123

RESULT 20  
US-10-450-763-37731  
Sequence 37731, Application US/10450763  
Publication No. US20050196754A1  
GENERAL INFORMATION:  
APPLICANT: Hyseq, Inc  
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
FILE REFERENCE: 790C19/US  
CURRENT APPLICATION NUMBER: US/10/450,763  
PRIOR FILING DATE: 2003-06-11  
PRIOR APPLICATION NUMBER: PCT/US01/08631  
PRIOR FILING DATE: 2001-03-30  
PRIOR APPLICATION NUMBER: 09/540,217  
PRIOR FILING DATE: 2000-03-31  
PRIOR APPLICATION NUMBER: 09/649,167  
PRIOR FILING DATE: 2000-08-23  
NUMBER OF SEQ ID NOS: 60736  
SOFTWARE: Custom  
SEQ ID NO 37731  
LENGTH: 677  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: DOMAIN  
LOCATION: (231)..(639)  
OTHER INFORMATION: Zinc finger, C2H2 type domain identified by Pfam, accession  
US-10-450-763-37731

Query Match 75.5%; Score 40; DB 5; Length 677;  
Best Local Similarity 85.7%; Pred. No. 4.7e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCVCYCKT 9  
Db 291 SCVCYCKT 297

RESULT 21  
US-10-108-260A-3060  
Sequence 3060, Application US/10108260A  
Publication No. US20040005560A1  
GENERAL INFORMATION:  
APPLICANT: HELIX RESEARCH INSTITUTE  
TITLE OF INVENTION: No. US20040005560A1 full length cDNA  
FILE REFERENCE: H1-A0106  
CURRENT APPLICATION NUMBER: US/10/108,260A  
PRIOR FILING DATE: 2002-03-27  
NUMBER OF SEQ ID NOS: 5458  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3060  
LENGTH: 727  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-108-260A-3060

Query Match 75.5%; Score 40; DB 4; Length 727;  
Best Local Similarity 85.7%; Pred. No. 5e+02;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 3 TCVCYCKT 9  
Db 273 SCVCYCKT 279

RESULT 22  
US-10-471-450-16  
Sequence 16, Application US/10471450  
Publication No. US20040152877A1  
GENERAL INFORMATION:  
APPLICANT: JACKSON, Jennifer L.; BAUGHN, Mariah R.;  
APPLICANT: SWARNAKAR, Anita; YUE, Henry;  
APPLICANT: ELIOTT, Vicki S.; BUREFORD, Neil;  
APPLICANT: DING, Li; TANG, Y. Tom;  
APPLICANT: LEE, Soo Yeun; AZIMZAI, Valda;  
APPLICANT: CHAMLA, Narinder K.; GIETZEN, Kimberly J.;  
APPLICANT: GRIFFIN, Jennifer A.; LAL, Preeti G.;  
APPLICANT: YANG, Junning; BOROMSKY, Mark L.;  
APPLICANT: RICHARDSON, Thomas W.; YUE, Hubbin;  
APPLICANT: BECHA, Shanya; FORSYTHE, Ian J.;  
APPLICANT: JONES, Karen Anne; WARREN, Bridget;  
APPLICANT: THANGAVELU, Kavitha; HONCHERL, Cynthia;  
APPLICANT: JOLLEY, Helen E.; HAPALIA, April J.A.; Huijun Z. Ring  
TITLE OF INVENTION: NUCLEIC ACID ASSOCIATED PROTEINS  
FILE REFERENCE: PF-0917 USN  
CURRENT APPLICATION NUMBER: US/10/471,450  
PRIOR FILING DATE: 2003-09-10  
PRIOR APPLICATION NUMBER: PCT/US02/07869  
PRIOR FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: US 60/276,857  
PRIOR FILING DATE: 2001-03-16  
PRIOR APPLICATION NUMBER: US 60/285,489  
PRIOR FILING DATE: 2001-04-19  
PRIOR APPLICATION NUMBER: US 60/285,556  
PRIOR FILING DATE: 2001-04-19  
PRIOR APPLICATION NUMBER: US 60/288,700  
PRIOR FILING DATE: 2001-05-04  
PRIOR APPLICATION NUMBER: US 60/288,646  
PRIOR FILING DATE: 2001-05-04  
PRIOR APPLICATION NUMBER: US 60/290,510  
PRIOR FILING DATE: 2001-05-10  
PRIOR APPLICATION NUMBER: US 60/290,369  
PRIOR FILING DATE: 2001-05-11  
PRIOR APPLICATION NUMBER: US 60/332,426  
PRIOR FILING DATE: 2001-11-16  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: PERL Program  
SEQ ID NO 16  
LENGTH: 3572  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Inocyte ID No: 3206847CD1  
US-10-471-450-16

Query Match 75.5%; Score 40; DB 4; Length 3572;  
Best Local Similarity 85.7%; Pred. No. 2e+03;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TCVCYCKT 9  
Db 673 SCVCYCKT 679

RESULT 23  
US-10-751-845-139  
Sequence 139, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne



```
; SEQ ID NO 13659
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-815-242-13659

Query Match          73.6%; Score 39; DB 3; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Cy 1 EITCYCKT 9
Db 265 EITCFCQT 273

RESULT 27
US-09-769-787-153
; Sequence 153, Application US/09769787
; Publication No. US20030091577A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hanebro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PMC/P21123WO
; CURRENT APPLICATION NUMBER: US/09/769,787
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 153
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-769-787-153

Query Match          73.6%; Score 39; DB 3; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Cy 1 EITCYCKT 9
Db 265 EITCFCQT 273

RESULT 28
US-10-282-122A-74226
; Sequence 74226, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Lianggu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haeselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 74226
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-10-282-122A-74226

Query Match          73.6%; Score 39; DB 4; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Cy 1 EITCYCKT 9
Db 265 EITCFCQT 273

RESULT 29
US-10-472-928-4594
; Sequence 4594, Application US/10472928
; Publication No. US20050020813A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: THE INSTITUTE FOR GENOMIC RESEARCH
; TITLE OF INVENTION: STREPTOCOCCUS PNEUMONIAE PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE: P026926WO
; CURRENT APPLICATION NUMBER: US/10/472,928
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: GB-0107658.7
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4979
; SOFTWARE: SeqMin99, version 1.03
; SEQ ID NO 4594
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; OTHER INFORMATION: chaperonin, 33 kDa (hsp10)
; OTHER INFORMATION: Cellular location: cytoplasm
; OTHER INFORMATION: Similar to strain R6 sequence 15904034 (e-163)
US-10-472-928-4594

Query Match          73.6%; Score 39; DB 5; Length 290;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Cy 1 EITCYCKT 9
Db 265 EITCFCQT 273

RESULT 30
US-10-617-320-2649
; Sequence 2649, Application US/10617320
; Publication No. US20050136404A1
; GENERAL INFORMATION:
```

APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGN  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/617,320  
FILING DATE: 10-Jul-2003  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
APPLICATION NUMBER: 60/ 085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneka  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 2649:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 305 amino acids  
TYPE: amino acid  
MOLECULE TYPE: linear  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...305  
SEQUENCE DESCRIPTION: SEQ ID NO: 2649:  
US-10-617-320-2649  
Query Match 73.6%; Score 39; DB 5; Length 305;  
Best Local Similarity 66.7%; Pred. No. 3.3e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 ITCVCKT 9  
Db 280 EITCQFCQT 288  
RESULT 31  
US-10-425-115-276810  
Sequence 276810, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326

SEQ ID NO 276810  
LENGTH: 95  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_184033C.1.pcp  
US-10-425-115-276810  
Query Match 71.7%; Score 38; DB 4; Length 95;  
Best Local Similarity 62.5%; Pred. No. 1.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 2 ITCVCKT 9  
Db 55 VTCFYCKS 62  
RESULT 32  
US-10-425-115-276807  
Sequence 276807, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 276807  
LENGTH: 123  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1)...(123)  
OTHER INFORMATION: unsure at all Xaa locations  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_184030C.1.pcp  
US-10-425-115-276807  
Query Match 71.7%; Score 38; DB 4; Length 123;  
Best Local Similarity 62.5%; Pred. No. 2.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 2 ITCVCKT 9  
Db 98 VTCFYCKS 105  
RESULT 33  
US-11-021-949-27  
Sequence 27, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SANTIAGO, CHAMORO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 27



LENGTH: 150  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-27

Query Match 71.7%; Score 38; DB 6; Length 150;  
Best Local Similarity 62.5%; Pred. No. 2.5e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 BITCVYCK 8  
DB 27 QVQCVYCK 34

RESULT 34  
US-11-021-949-25  
Sequence 25, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 25  
LENGTH: 151  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-25

Query Match 71.7%; Score 38; DB 6; Length 151;  
Best Local Similarity 62.5%; Pred. No. 2.6e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 BITCVYCK 8  
DB 27 QVLCYVYCK 34

RESULT 35  
US-11-021-949-26  
Sequence 26, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 26  
LENGTH: 151  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-26

Query Match 71.7%; Score 38; DB 6; Length 151;  
Best Local Similarity 62.5%; Pred. No. 2.6e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 BITCVYCK 8  
DB 27 QVQCVYCK 34

RESULT 36  
US-11-021-949-29  
Sequence 29, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 29  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-29

Query Match 71.7%; Score 38; DB 6; Length 158;  
Best Local Similarity 85.7%; Pred. No. 2.7e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 ITCVYCK 8  
DB 30 IACVYCK 36

RESULT 37  
US-11-097-143-23502  
Sequence 23502, Application US/11097143  
Publication No. US20050208558A1  
GENERAL INFORMATION:  
APPLICANT: Venter, J. Craig  
APPLICANT: et al.  
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
GENES.  
FILE REFERENCE: CLO00728  
CURRENT APPLICATION NUMBER: US/11/097,143  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: 60/157,832  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: 60/160,191  
PRIOR FILING DATE: 1999-10-19  
PRIOR APPLICATION NUMBER: 60/161,932  
PRIOR FILING DATE: 1999-10-28  
PRIOR APPLICATION NUMBER: 60/164,769  
PRIOR FILING DATE: 1999-11-12  
PRIOR APPLICATION NUMBER: 60/173,383  
PRIOR FILING DATE: 1999-12-28  
PRIOR APPLICATION NUMBER: 60/175,693  
PRIOR FILING DATE: 2000-01-12  
PRIOR APPLICATION NUMBER: 60/184,831  
PRIOR FILING DATE: 2000-02-24  
PRIOR APPLICATION NUMBER: 60/191,637  
PRIOR FILING DATE: 2000-03-23  
NUMBER OF SEQ ID NOS: 43008

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 23502  
LENGTH: 1366  
TYPE: PRT  
ORGANISM: DROSOPHILA  
US-11-097-143-23502

Query Match 71.7%; Score 38; DB 6; Length 1366;  
Best Local Similarity 66.7%; Pred. No. 1.8e+03;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVCKT 9  
|:|:|:|:  
DB 1290 EVTCYCKT 1298

RESULT 38

US-10-424-599-200471  
; Sequence 200471, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 200471  
; LENGTH: 45  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(45)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_23050C.1.pep  
US-10-424-599-200471

Query Match 69.8%; Score 37; DB 4; Length 45;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCKT 9  
|:|:|:|:  
DB 12 ITSTVCKT 19

RESULT 39

US-10-424-599-193040  
; Sequence 193040, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 193040  
; LENGTH: 52  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_16336C.1.pep

US-10-424-599-193040

Query Match 69.8%; Score 37; DB 4; Length 52;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVCKT 9  
|:|:|:|:  
DB 24 EMTCHVCTT 32

RESULT 40

US-10-425-114-44730  
; Sequence 44730, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53113)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 44730  
; LENGTH: 55  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB3076-011-F7\_FLI.pep  
US-10-425-114-44730

Query Match 69.8%; Score 37; DB 4; Length 55;  
Best Local Similarity 55.6%; Pred. No. 1.5e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVCKT 9  
|:|:|:|:  
DB 46 EVACSYCT 54

RESULT 41

US-10-425-115-191172  
; Sequence 191172, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 191172  
; LENGTH: 55  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_105927C.1.pep  
US-10-425-115-191172

Query Match 69.8%; Score 37; DB 4; Length 55;  
Best Local Similarity 55.6%; Pred. No. 1.5e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCVCKT 9

Db 46 EVACSYCET 54

```
RESULT 42
US-10-437-963-139053
; Sequence 139053, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 139053
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(64)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_40383C.1.pcp
US-10-437-963-139053
```

Query Match 69.8%; Score 37; DB 4; Length 64;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCYCKT 9  
Db 41 EOTCVFCST 49

```
RESULT 43
US-10-424-599-249892
; Sequence 249892, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 249892
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_67681C.1.pcp
US-10-424-599-249892
```

Query Match 69.8%; Score 37; DB 4; Length 70;  
Best Local Similarity 57.1%; Pred. No. 1.9e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
:|||||

Db 54 LTCIYCR 60

```
RESULT 44
US-10-437-963-124482
; Sequence 124482, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 124482
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(137)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_27216C.1.pcp
US-10-437-963-124482
```

Query Match 69.8%; Score 37; DB 4; Length 137;  
Best Local Similarity 85.7%; Pred. No. 3.3e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCYCKT 7  
Db 123 ESTCYCK 129

```
RESULT 45
US-10-369-493-11069
; Sequence 11069, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 11069
; LENGTH: 147
; TYPE: PRT
; ORGANISM: Petriopsis acidarmanus
US-10-369-493-11069
```

Query Match 69.8%; Score 37; DB 4; Length 147;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
||||||

Db 129 IKCVYCK 135

## RESULT 46

US-11-021-949-20  
; Sequence 20, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEIZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; CURRENT FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 20  
; LENGTH: 153  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-20

Query Match 69.8%; Score 37; DB 6; Length 153;  
Best Local Similarity 62.5%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
Db 30 QLOCVYCK 37

## RESULT 47

US-11-021-949-22  
; Sequence 22, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEIZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; CURRENT FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 22  
; LENGTH: 155  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-22

Query Match 69.8%; Score 37; DB 6; Length 155;  
Best Local Similarity 71.4%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
Db 31 LSCVYCK 37

RESULT 48  
US-11-021-949-23

; Sequence 23, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEIZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; CURRENT FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 23  
; LENGTH: 155  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-23

Query Match 69.8%; Score 37; DB 6; Length 155;  
Best Local Similarity 71.4%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
Db 31 LSCVYCK 37

RESULT 49  
US-09-895-913A-330  
; Sequence 330, Application US/09895913A  
; Patent No. US20020160456A1  
; GENERAL INFORMATION:  
; APPLICANT: Kleantous, Harold  
; APPLICANT: Al-Garawi, Amal  
; APPLICANT: Miller, Charles  
; APPLICANT: Tomb, Jean Francois  
; APPLICANT: Omen, Raymond P.  
; TITLE OF INVENTION: Identification of Polynucleotides  
; TITLE OF INVENTION: Encoding No. US20020160456A1 Helicobacter Polypeptides in the  
; FILE REFERENCE: 06132/043002  
; CURRENT APPLICATION NUMBER: US/09/895,913A  
; CURRENT FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: US 08/881,227  
; PRIOR FILING DATE: 1997-06-24  
; NUMBER OF SEQ ID NOS: 368  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 330  
; LENGTH: 183  
; TYPE: PRT  
; ORGANISM: Helicobacter pylori  
US-09-895-913A-330

Query Match 69.8%; Score 37; DB 3; Length 183;  
Best Local Similarity 62.5%; Pred. No. 4.3e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
Db 106 DISCVYCK 113

RESULT 50  
US-09-815-242-11324  
; Sequence 11324, Application US/09815242  
; Patent No. US2002061569A1  
; GENERAL INFORMATION:  
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; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
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; LENGTH: 328
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-09-815-242-11324

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244	30	56.6	343	11	US-11-188-298-5558	Sequence 5558, Ap	317	29	54.7	285	11	US-11-188-298-17365	Sequence 17365, A
245	30	56.6	348	11	US-11-096-568A-28083	Sequence 28083, A	318	29	54.7	288	11	US-11-188-298-10535	Sequence 10535, A
246	30	56.6	351	11	US-11-096-568A-28082	Sequence 28082, A	319	29	54.7	292	11	US-11-087-099-5026	Sequence 5026, Ap
247	30	56.6	361	9	US-10-965-103-2	Sequence 2, Appli	320	29	54.7	295	11	US-11-096-568A-15318	Sequence 15318, A
248	30	56.6	361	9	US-10-965-103-29	Sequence 29, Appli	321	29	54.7	295	11	US-11-096-568A-15239	Sequence 15239, A
249	30	56.6	361	9	US-10-965-103-39	Sequence 39, Appli	322	29	54.7	298	11	US-11-096-568A-3266	Sequence 3265, Ap
250	30	56.6	361	11	US-11-270-717-2	Sequence 2, Appli	323	29	54.7	298	11	US-11-096-568A-3266	Sequence 3264, Ap
251	30	56.6	364	11	US-11-096-568A-2492	Sequence 2492, Ap	324	29	54.7	300	11	US-11-188-298-2374	Sequence 2324, Ap
252	30	56.6	365	11	US-11-096-568A-2491	Sequence 2491, Ap	325	29	54.7	301	11	US-11-096-568A-17265	Sequence 20010, A
253	30	56.6	368	11	US-11-087-099-471	Sequence 471, App	326	29	54.7	303	11	US-11-096-568A-3264	Sequence 3263, Ap
254	30	56.6	380	11	US-11-087-099-4225	Sequence 4225, Ap	327	29	54.7	305	9	US-10-506-454-55	Sequence 55, Appli
255	30	56.6	384	11	US-11-096-568A-30036	Sequence 30036, A	328	29	54.7	305	11	US-11-096-568A-7516	Sequence 7516, Ap
256	30	56.6	386	11	US-11-079-463-5776	Sequence 5776, Ap	329	29	54.7	306	11	US-11-188-298-20010	Sequence 20010, A
257	30	56.6	422	11	US-11-096-568A-30035	Sequence 30035, A	330	29	54.7	307	11	US-11-096-568A-3263	Sequence 3264, Ap
258	30	56.6	422	9	US-10-965-103-16	Sequence 16, Appli	331	29	54.7	309	11	US-11-096-568A-22644	Sequence 22644, A
259	30	56.6	439	11	US-11-045-004-1683	Sequence 1683, Ap	332	29	54.7	310	9	US-10-485-517-409	Sequence 409, App
260	30	56.6	444	11	US-11-072-512-354	Sequence 2254, Ap	333	29	54.7	317	11	US-11-205-225-2	Sequence 2, Appli
261	30	56.6	444	11	US-11-072-512-354	Sequence 31, Appli	334	29	54.7	325	8	US-10-505-928-327	Sequence 327, App
262	30	56.6	496	11	US-11-079-463-9001	Sequence 9001, Ap	335	29	54.7	325	10	US-11-301-554-1816	Sequence 1816, Ap
263	30	56.6	537	11	US-11-129-442-47	Sequence 47, Appli	336	29	54.7	329	11	US-11-087-099-3676	Sequence 3676, Ap
264	30	56.6	591	9	US-10-784-004-456	Sequence 456, Appli	337	29	54.7	335	8	US-10-511-937-2469	Sequence 2469, Ap
265	30	56.6	596	9	US-10-784-004-473	Sequence 773, App	338	29	54.7	339	11	US-11-087-099-8139	Sequence 8129, Ap
266	30	56.6	596	11	US-11-063-343-28	Sequence 28, Appli	339	29	54.7	344	11	US-11-096-568A-31491	Sequence 3129, Ap
267	30	56.6	596	11	US-11-203-526-28	Sequence 28, Appli	340	29	54.7	345	11	US-11-087-099-2121	Sequence 2121, Ap
268	30	56.6	700	11	US-11-079-463-7837	Sequence 7837, Ap	341	29	54.7	346	11	US-11-098-686-10637	Sequence 10637, A
269	30	56.6	748	11	US-11-079-463-9853	Sequence 9853, Ap	342	29	54.7	348	11	US-11-096-568A-31490	Sequence 31490, A
270	30	56.6	843	11	US-11-072-512-2506	Sequence 2506, Ap	343	29	54.7	351	11	US-11-087-099-6490	Sequence 6490, Ap
271	30	56.6	1104	11	US-11-072-512-2506	Sequence 2506, Ap	344	29	54.7	351	11	US-11-087-099-11534	Sequence 11534, A
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273	30	56.6	4443	11	US-11-129-741-3478	Sequence 3478, Ap	346	29	54.7	356	11	US-11-096-568A-31489	Sequence 31489, A
274	30	56.6	4473	11	US-11-129-741-460	Sequence 460, App	347	29	54.7	358	11	US-11-096-568A-15317	Sequence 15317, A
275	30	56.6	4473	11	US-11-129-741-460	Sequence 460, App	348	29	54.7	361	9	US-10-131-826A-252	Sequence 252, App
276	29.5	55.7	384	11	US-11-096-568A-2416	Sequence 2416, Ap	349	29	54.7	361	9	US-10-973-115B-252	Sequence 252, App
277	29.5	55.7	399	11	US-11-096-568A-2415	Sequence 2415, Ap	350	29	54.7	361	9	US-10-137-873A-252	Sequence 252, App
278	29.5	55.7	408	11	US-11-096-568A-2414	Sequence 2414, Ap	351	29	54.7	361	9	US-10-152-370-252	Sequence 252, App
279	29.5	55.7	408	11	US-11-096-568A-2417	Sequence 2417, Ap	352	29	54.7	361	11	US-11-087-099-5271	Sequence 5271, Ap
280	29	54.7	15	9	US-10-530-061-1690	Sequence 1690, Ap	353	29	54.7	361	11	US-11-280-153-252	Sequence 252, App
281	29	54.7	33	11	US-10-895-064-1504	Sequence 1504, Ap	354	29	54.7	362	11	US-11-087-099-3031	Sequence 3031, Ap
282	29	54.7	33	11	US-11-129-741-1504	Sequence 1504, Ap	355	29	54.7	362	11	US-11-087-099-5935	Sequence 5935, Ap
283	29	54.7	67	9	US-10-467-657-6428	Sequence 6428, Ap	356	29	54.7	363	11	US-11-111-239-6	Sequence 6, Appli
284	29	54.7	85	11	US-11-172-740-1856	Sequence 1856, Ap	357	29	54.7	368	11	US-11-087-099-5253	Sequence 5253, Ap
285	29	54.7	88	11	US-11-172-740-1857	Sequence 1857, Ap	358	29	54.7	389	11	US-11-096-568A-21738	Sequence 21738, A
286	29	54.7	88	11	US-11-188-298-2349	Sequence 2349, Ap	359	29	54.7	392	11	US-11-096-568A-21737	Sequence 21737, A
287	29	54.7	94	9	US-10-467-657-3628	Sequence 3628, Ap	360	29	54.7	393	11	US-11-111-239-8	Sequence 8, Appli
288	29	54.7	94	9	US-10-467-657-6394	Sequence 6394, Ap	361	29	54.7	399	9	US-10-821-234-1163	Sequence 1163, Ap
289	29	54.7	94	11	US-11-079-463-8939	Sequence 8939, Ap	362	29	54.7	399	11	US-11-111-239-110	Sequence 10, Appli
290	29	54.7	103	9	US-10-506-454-1526	Sequence 1526, Ap	363	29	54.7	401	9	US-10-948-053-2	Sequence 2, Appli
291	29	54.7	103	11	US-11-228-458-12	Sequence 12, Appli	364	29	54.7	415	11	US-11-182-294-6	Sequence 989, App
292	29	54.7	106	9	US-10-530-253-32	Sequence 32, Appli	365	29	54.7	419	9	US-10-506-454-969	Sequence 989, App
293	29	54.7	107	9	US-10-530-253-37	Sequence 37, Appli	366	29	54.7	420	11	US-11-074-176-48	Sequence 48, Appli
294	29	54.7	111	11	US-11-228-458-4	Sequence 4, Appli	367	29	54.7	420	11	US-11-072-512-3885	Sequence 3885, Ap
295	29	54.7	113	11	US-11-072-512-2875	Sequence 2875, Ap	368	29	54.7	420	11	US-11-096-568A-21736	Sequence 21736, A
296	29	54.7	113	11	US-11-152-601-19	Sequence 19, Appli	369	29	54.7	421	8	US-10-505-928-410	Sequence 410, App
297	29	54.7	117	9	US-10-467-657-2296	Sequence 2296, Ap	370	29	54.7	421	9	US-10-878-556A-173	Sequence 173, App
298	29	54.7	140	11	US-11-045-004-1974	Sequence 1974, Ap	371	29	54.7	424	11	US-11-096-568A-17960	Sequence 17960, A
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302	29	54.7	172	11	US-11-205-225-7	Sequence 7, Appli	375	29	54.7	430	11	US-11-096-568A-17958	Sequence 17958, A
303	29	54.7	175	11	US-11-188-298-17586	Sequence 17586, A	376	29	54.7	432	11	US-11-264-096-2238	Sequence 2238, Ap
304	29	54.7	178	11	US-11-205-225-6	Sequence 6, Appli	377	29	54.7	432	11	US-11-264-096-2239	Sequence 2239, Ap
305	29	54.7	179	11	US-11-188-298-16847	Sequence 16847, A	378	29	54.7	432	11	US-11-096-568A-22052	Sequence 22052, A
306	29	54.7	179	11	US-11-188-298-20437	Sequence 20437, A	379	29	54.7	432	11	US-11-096-568A-22541	Sequence 22541, A
307	29	54.7	179	11	US-10-967-527A-28	Sequence 28, Appli	380	29	54.7	432	11	US-11-096-568A-22051	Sequence 22051, A
308	29	54.7	199	11	US-11-096-568A-33045	Sequence 33045, A	381	29	54.7	432	11	US-11-096-568A-22050	Sequence 22050, A
309	29	54.7	201	11	US-11-079-463-6349	Sequence 6349, Ap	382	29	54.7	432	11	US-11-096-568A-21955	Sequence 21955, A
310	29	54.7	207	11	US-11-096-568A-7518	Sequence 7518, Ap	383	29	54.7	432	11	US-11-096-568A-21954	Sequence 21954, A
311	29	54.7	226	9	US-10-927-500-65	Sequence 65, Appli	384	29	54.7	552	11	US-11-121-438-12	Sequence 12, Appli
312	29	54.7	249	11	US-11-264-096-335	Sequence 335, App	385	29	54.7	571	11	US-11-024-959-408	Sequence 408, App
313	29	54.7	252	9	US-10-506-454-459	Sequence 459, App	386	29	54.7	574	11	US-11-024-959-408	Sequence 408, App

387	29	54.7	583	11	US-11-096-568A-21953	Sequence 21953, A	460	28	52.8	215	11	US-11-188-298-21950	Sequence 21950, A
388	29	54.7	666	11	US-11-098-686-11016	Sequence 11016, A	461	28	52.8	218	9	US-10-374-954-5	Sequence 5, Appl1
389	29	54.7	668	11	US-10-506-454-799	Sequence 799, App	462	28	52.8	218	9	US-10-921-286B-10	Sequence 10, Appl
390	29	54.7	684	11	US-11-096-568A-29369	Sequence 29369, A	463	28	52.8	218	10	US-11-263-326-129	Sequence 129, App
391	29	54.7	734	9	US-10-501-035-347	Sequence 347, App	464	28	52.8	218	10	US-11-263-326-130	Sequence 130, App
392	29	54.7	858	9	US-10-330-773-195	Sequence 195, App	465	28	52.8	218	10	US-11-263-326-174	Sequence 174, App
393	29	54.7	882	11	US-11-098-686-10893	Sequence 10893, A	466	28	52.8	220	11	US-11-096-568A-34203	Sequence 34203, A
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395	29	54.7	964	11	US-11-024-959-477	Sequence 477, App	468	28	52.8	223	11	US-11-096-568A-4998	Sequence 4998, Ap
396	29	54.7	1147	9	US-10-330-773-190	Sequence 190, App	469	28	52.8	237	11	US-11-096-568A-4997	Sequence 4997, Ap
397	29	54.7	1202	9	US-10-330-773-193	Sequence 193, App	470	28	52.8	246	11	US-11-096-568A-23207	Sequence 23207, A
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399	29	54.7	1724	9	US-10-766-317-6	Sequence 6, Appl	472	28	52.8	247	11	US-11-096-568A-4996	Sequence 4996, Ap
400	29	54.7	1725	9	US-10-766-317-8	Sequence 8, Appl	473	28	52.8	248	11	US-11-096-568A-3955	Sequence 3955, Ap
401	29	54.7	1725	9	US-10-784-004-457	Sequence 457, App	474	28	52.8	248	11	US-11-096-568A-19786	Sequence 19786, A
402	29	54.7	1725	9	US-10-784-004-960	Sequence 960, App	475	28	52.8	249	11	US-11-087-099-10093	Sequence 10093, A
403	29	54.7	1871	8	US-10-501-834-26	Sequence 26, Appl	476	28	52.8	249	11	US-11-096-568A-34202	Sequence 34202, A
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405	29	54.7	1980	11	US-11-179-624-3	Sequence 3, Appl	478	28	52.8	256	11	US-11-096-568A-22890	Sequence 22890, A
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407	29	54.7	3333	9	US-10-766-317-4	Sequence 4, Appl	480	28	52.8	256	11	US-11-188-298-324	Sequence 324, App
408	28.5	53.8	487	11	US-11-096-568A-22730	Sequence 22730, A	481	28	52.8	256	11	US-11-045-004-858	Sequence 858, App
409	28.5	53.8	492	11	US-11-096-568A-22729	Sequence 22729, A	482	28	52.8	260	11	US-11-072-512-2151	Sequence 2151, Ap
410	28.5	53.8	530	11	US-11-096-568A-22728	Sequence 22728, A	483	28	52.8	266	9	US-10-353-783-57	Sequence 57, Appl
411	28.5	53.8	756	9	US-10-330-773-731	Sequence 731, App	484	28	52.8	268	11	US-11-096-568A-25355	Sequence 25355, A
412	28	52.8	37	9	US-10-895-064-2682	Sequence 2682, App	485	28	52.8	270	9	US-10-988-476-2	Sequence 2, Appl1
413	28	52.8	37	11	US-11-129-741-2682	Sequence 2682, Ap	486	28	52.8	271	11	US-11-096-568A-23528	Sequence 23528, A
414	28	52.8	50	9	US-10-467-657-2158	Sequence 2158, App	487	28	52.8	273	9	US-10-353-783-42	Sequence 42, Appl
415	28	52.8	50	9	US-10-467-657-4814	Sequence 4814, App	488	28	52.8	273	9	US-10-353-783-53	Sequence 53, Appl
416	28	52.8	51	11	US-11-229-769-216	Sequence 216, App	489	28	52.8	273	9	US-10-353-783-54	Sequence 54, Appl
417	28	52.8	53	9	US-10-895-064-2756	Sequence 2756, App	490	28	52.8	273	9	US-10-353-783-55	Sequence 55, Appl
418	28	52.8	53	11	US-11-129-741-2756	Sequence 2756, Ap	491	28	52.8	273	9	US-10-988-476-4	Sequence 4, Appl1
419	28	52.8	57	9	US-10-986-501-225	Sequence 225, App	492	28	52.8	274	9	US-10-353-783-51	Sequence 51, Appl
420	28	52.8	72	11	US-11-004-399-833	Sequence 833, App	493	28	52.8	277	9	US-10-527-500-23	Sequence 23, Appl
421	28	52.8	107	11	US-11-096-568A-18859	Sequence 18859, A	494	28	52.8	279	11	US-11-096-568A-33527	Sequence 33527, A
422	28	52.8	111	11	US-11-087-099-9920	Sequence 9920, Ap	495	28	52.8	283	11	US-11-096-568A-29222	Sequence 29222, A
423	28	52.8	112	11	US-11-152-601-20	Sequence 20, Appl	496	28	52.8	286	9	US-10-467-657-196	Sequence 196, App
424	28	52.8	113	9	US-10-527-500-21	Sequence 21, Appl	497	28	52.8	286	9	US-10-467-657-5320	Sequence 5320, Ap
425	28	52.8	114	11	US-11-087-099-10658	Sequence 10658, A	498	28	52.8	288	11	US-11-096-568A-22289	Sequence 22289, A
426	28	52.8	118	11	US-11-098-686-10491	Sequence 10491, A	499	28	52.8	293	11	US-11-188-298-2668	Sequence 2668, Ap
427	28	52.8	118	11	US-11-190-465A-3	Sequence 3, Appl1	500	28	52.8	293	11	US-11-188-298-3130	Sequence 3130, Ap
428	28	52.8	118	11	US-11-190-465A-58	Sequence 58, Appl	501	28	52.8	293	11	US-11-188-298-16090	Sequence 16090, A
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430	28	52.8	118	11	US-11-190-465A-60	Sequence 60, Appl	503	28	52.8	305	11	US-11-199-233-3	Sequence 3, Appl1
431	28	52.8	118	11	US-11-190-465A-61	Sequence 61, Appl	504	28	52.8	307	11	US-11-199-233-9	Sequence 9, Appl1
432	28	52.8	118	11	US-11-190-465A-62	Sequence 62, Appl	505	28	52.8	311	11	US-11-096-568A-17041	Sequence 17041, A
433	28	52.8	118	11	US-11-190-465A-63	Sequence 63, Appl	506	28	52.8	311	11	US-11-096-568A-29221	Sequence 29221, A
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435	28	52.8	118	11	US-11-190-465A-65	Sequence 65, Appl	508	28	52.8	321	11	US-11-188-298-16892	Sequence 16892, A
436	28	52.8	128	11	US-11-264-096-564	Sequence 564, App	509	28	52.8	326	11	US-11-087-099-10002	Sequence 10002, A
437	28	52.8	131	11	US-11-172-740-735	Sequence 735, App	510	28	52.8	327	9	US-10-218-784-236	Sequence 236, App
438	28	52.8	135	9	US-10-523-362-32	Sequence 32, Appl	511	28	52.8	337	9	US-10-219-061-236	Sequence 236, App
439	28	52.8	138	11	US-11-008-727-2	Sequence 2, Appl1	512	28	52.8	337	9	US-10-219-062-236	Sequence 236, App
440	28	52.8	139	11	US-11-052-554A-278	Sequence 278, App	513	28	52.8	337	9	US-10-219-064-236	Sequence 236, App
441	28	52.8	142	9	US-10-467-657-1558	Sequence 1558, App	514	28	52.8	337	9	US-10-233-134-236	Sequence 236, App
442	28	52.8	143	9	US-10-995-951A-28	Sequence 28, Appl	515	28	52.8	330	11	US-11-096-568A-4869	Sequence 4869, Ap
443	28	52.8	143	9	US-10-995-951A-30	Sequence 30, Appl	516	28	52.8	333	9	US-10-455-772-454	Sequence 454, App
444	28	52.8	143	9	US-10-523-362-4	Sequence 4, Appl1	517	28	52.8	333	11	US-11-087-099-4868	Sequence 4868, Ap
445	28	52.8	143	11	US-11-067-425A-63	Sequence 63, Appl	518	28	52.8	334	11	US-11-096-568A-1868	Sequence 1868, Ap
446	28	52.8	143	11	US-11-067-425A-65	Sequence 65, Appl	519	28	52.8	339	11	US-11-188-298-2603	Sequence 2603, Ap
447	28	52.8	170	11	US-11-096-568A-23486	Sequence 23486, A	520	28	52.8	339	11	US-11-188-298-7087	Sequence 7087, Ap
448	28	52.8	177	11	US-11-096-568A-19788	Sequence 19788, A	521	28	52.8	341	11	US-11-087-099-10773	Sequence 10773, Ap
449	28	52.8	178	11	US-11-096-568A-3956	Sequence 3956, Ap	522	28	52.8	341	11	US-11-087-099-11729	Sequence 11729, Ap
450	28	52.8	179	11	US-11-096-568A-34204	Sequence 34204, A	523	28	52.8	341	11	US-11-087-099-33445	Sequence 33445, Ap
451	28	52.8	180	11	US-11-072-512-3374	Sequence 3374, Ap	524	28	52.8	341	11	US-11-087-099-3607	Sequence 3607, Ap
452	28	52.8	190	11	US-11-188-298-19656	Sequence 19656, A	525	28	52.8	341	11	US-11-087-099-4742	Sequence 4742, Ap
453	28	52.8	196	9	US-10-353-783-40	Sequence 40, Appl	526	28	52.8	341	11	US-11-087-099-4826	Sequence 4826, Ap
454	28	52.8	208	11	US-11-096-568A-22891	Sequence 22891, A	527	28	52.8	341	11	US-11-087-099-6075	Sequence 6075, Ap
455	28	52.8	209	11	US-11-096-568A-23485	Sequence 23485, A	528	28	52.8	341	11	US-11-087-099-7502	Sequence 7502, Ap
456	28	52.8	210	9	US-10-986-501-115	Sequence 115, App	529	28	52.8	343	11	US-11-087-099-10498	Sequence 10498, A
457	28	52.8	212	11	US-11-000-463-429	Sequence 429, App	530	28	52.8	343	11	US-11-087-099-5105	Sequence 5105, Ap
458	28	52.8	212	11	US-11-000-463-901	Sequence 901, App	531	28	52.8	343	11	US-11-087-099-7083	Sequence 7083, Ap
459	28	52.8	214	11	US-11-096-568A-19787	Sequence 19787, A	532	28	52.8	343	11	US-11-087-099-11751	Sequence 11751, A

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535	28	52.8	348	11	US-11-087-099-2207	Sequence 2207, Ap	608	28	52.8	591	9	US-10-714-995-16	Sequence 16, Appl
536	28	52.8	348	11	US-11-087-099-6458	Sequence 6458, Ap	609	28	52.8	595	9	US-10-745-586-61	Sequence 61, Appl
537	28	52.8	348	11	US-11-045-004-602	Sequence 602, App	610	28	52.8	596	11	US-11-188-298-8338	Sequence 8338, Ap
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543	28	52.8	368	11	US-11-096-568A-23306	Sequence 23206, A	616	28	52.8	670	9	US-10-455-772-446	Sequence 2973, Ap
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545	28	52.8	369	11	US-11-087-099-2978	Sequence 2978, Ap	618	28	52.8	748	9	US-10-330-773-194	Sequence 13, Appl
546	28	52.8	369	11	US-11-087-099-9241	Sequence 9241, Ap	619	28	52.8	748	9	US-10-745-586-13	Sequence 2545, Ap
547	28	52.8	369	11	US-11-096-568A-17040	Sequence 17040, A	620	28	52.8	766	11	US-11-072-512-2545	Sequence 10952, A
548	28	52.8	369	11	US-11-096-568A-22889	Sequence 22889, A	621	28	52.8	796	11	US-11-098-686-10952	Sequence 312, App
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551	28	52.8	378	11	US-11-096-568A-13078	Sequence 13078, A	624	28	52.8	802	9	US-10-195-888-312	Sequence 312, App
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554	28	52.8	382	11	US-11-096-568A-12612	Sequence 12612, A	627	28	52.8	823	8	US-11-072-512-2839	Sequence 329, App
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557	28	52.8	390	11	US-11-194-246-288	Sequence 288, App	630	28	52.8	882	9	US-11-124-367A-328	Sequence 328, App
558	28	52.8	392	11	US-11-096-568A-12611	Sequence 12611, A	631	28	52.8	912	11	US-11-501-035-229	Sequence 59, Appl
559	28	52.8	394	9	US-10-506-454-942	Sequence 942, App	632	28	52.8	1048	9	US-10-922-232B-59	Sequence 2032, Ap
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561	28	52.8	398	11	US-11-096-568A-11824	Sequence 11824, A	634	28	52.8	1442	11	US-11-072-175-185	Sequence 392, App
562	28	52.8	401	11	US-11-045-004-801	Sequence 801, App	635	28	52.8	1609	11	US-10-330-773-392	Sequence 33051, A
563	28	52.8	402	9	US-10-131-826A-468	Sequence 468, App	636	28	52.8	1669	9	US-10-330-773-392	Sequence 33050, A
564	28	52.8	402	9	US-10-973-115B-468	Sequence 168, App	637	28	52.8	1724	11	US-11-096-568A-32051	Sequence 32049, A
565	28	52.8	402	9	US-10-218-784-164	Sequence 164, App	638	28	52.8	1730	11	US-11-096-568A-32050	Sequence 1, Appl1
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569	28	52.8	402	9	US-10-233-134-164	Sequence 164, App	642	28	52.8	3712	11	US-11-019-711-51	Sequence 20, Appl
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571	28	52.8	402	9	US-10-152-370-468	Sequence 468, App	644	28	52.8	4060	11	US-11-004-399-714	Sequence 11953, A
572	28	52.8	402	11	US-11-290-153-468	Sequence 468, App	645	28	52.8	4386	11	US-11-065-995-10	Sequence 574, App
573	28	52.8	406	11	US-11-096-568A-11823	Sequence 11823, A	646	28	52.8	6736	9	US-10-922-232B-56	Sequence 12, Appl
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575	28	52.8	416	11	US-11-096-568A-31086	Sequence 31086, A	648	27.5	51.9	95	11	US-11-096-568A-11954	Sequence 18, Appl
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584	28	52.8	442	8	US-11-096-568A-22301	Sequence 525, App	657	27.5	51.9	469	11	US-11-133-360-14	Sequence 14, Appl
585	28	52.8	444	11	US-11-096-568A-22301	Sequence 22301, A	658	27.5	51.9	469	11	US-11-133-360-14	Sequence 14, Appl
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588	28	52.8	470	11	US-11-008-727-20	Sequence 20, Appl	661	27	50.9	19	11	US-11-152-974A-550	Sequence 550, App
589	28	52.8	475	11	US-11-096-568A-13077	Sequence 13077, A	662	27	50.9	19	11	US-11-153-143A-550	Sequence 360, App
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592	28	52.8	482	9	US-11-188-298-21079	Sequence 21079, A	665	27	50.9	32	11	US-11-004-399-1750	Sequence 3945, Ap
593	28	52.8	482	9	US-10-821-234-972	Sequence 972, App	666	27	50.9	32	11	US-11-004-399-1750	Sequence 3687, Ap
594	28	52.8	483	11	US-11-188-298-7763	Sequence 7763, Ap	667	27	50.9	34	11	US-11-129-741-1687	Sequence 9211, Ap
595	28	52.8	488	11	US-11-169-041-197	Sequence 197, App	668	27	50.9	64	11	US-11-079-463-9231	Sequence 13144, A
596	28	52.8	510	11	US-11-096-568A-31085	Sequence 31085, A	669	27	50.9	73	11	US-11-096-568A-13744	Sequence 7136, A
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685	27	50.9	157	11	US-11-188-298-329	Sequence 329, App	758	27	50.9	343	11	US-11-087-099-801	Sequence 801, App
686	27	50.9	158	11	US-11-096-568A-1566	Sequence 1566, Ap	759	27	50.9	347	9	US-10-467-657-2962	Sequence 2962, Ap
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688	27	50.9	160	11	US-11-010-874-12	Sequence 12, App1	761	27	50.9	347	11	US-11-087-099-1248	Sequence 1248, Ap
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703	27	50.9	202	9	US-10-467-657-8154	Sequence 8154, Ap	776	27	50.9	360	11	US-11-262-284-34	Sequence 34, App1
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706	27	50.9	209	11	US-11-152-366-36	Sequence 36, App1	779	27	50.9	364	9	US-10-467-657-4106	Sequence 4106, Ap
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710	27	50.9	231	9	US-10-689-742-132	Sequence 132, App	783	27	50.9	371	11	US-11-087-099-575	Sequence 575, App
711	27	50.9	251	9	US-10-485-517-167	Sequence 167, App	784	27	50.9	373	11	US-11-188-298-15259	Sequence 15259, A
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716	27	50.9	271	9	US-10-353-783-52	Sequence 52, App1	789	27	50.9	380	11	US-11-188-298-20734	Sequence 20734, A
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730	27	50.9	305	11	US-11-264-096-1914	Sequence 1914, Ap	803	27	50.9	410	11	US-11-096-568A-13102	Sequence 13102, A
731	27	50.9	305	11	US-11-264-096-1915	Sequence 1915, Ap	804	27	50.9	414	9	US-10-878-556A-1	Sequence 1, App1
732	27	50.9	312	11	US-11-055-822-16	Sequence 16, App1	805	27	50.9	415	11	US-11-096-568A-1843	Sequence 1843, Ap
733	27	50.9	312	11	US-11-239-674-22	Sequence 22, App1	806	27	50.9	419	11	US-11-230-321-2	Sequence 2, App1
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735	27	50.9	324	9	US-10-878-556A-114	Sequence 114, App	808	27	50.9	423	11	US-11-045-004-1118	Sequence 1118, Ap
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## ALIGNMENTS

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RESULT 1
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

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US-10-530-061-1659
; Sequence 1659, Application US/10530061
; Publication No. US20060079453A1
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; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 517
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; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-517

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US-10-530-061-517
; Sequence 517, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
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; SEQ ID NO 517
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; ORGANISM: Human papillomavirus
US-10-530-061-517

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Db 8 EITCVYCK 15

RESULT 4
US-11-098-686-10919
; Sequence 10919, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
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; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
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US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21
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RESULT 6
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; Publication No. US20050216814A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/B21129WC
; CURRENT APPLICATION NUMBER: US/10/873,528
; CURRENT FILING DATE: 2004-06-23
; PRIOR APPLICATION NUMBER: US/09/769,787
; PRIOR FILING DATE: 2001-01-26
```

```
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 153
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-10-873-528-153
```

```
Query Match          73.6%; Score 39; DB 9; Length 290;
Best Local Similarity 66.7%; Pred. No. 20;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1 BITCVYCKT 9
        |||:|:|:|
Db      265 EITCQFCQT 273
```

```
RESULT 7
US-10-530-061-621
; Sequence 621, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 621
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-621
```

```
Query Match          71.7%; Score 38; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 ITCVYCK 8
        |||:|:|:|
Db      2 IACVYCK 8
```

```
RESULT 8
US-10-530-061-560
; Sequence 560, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
```



;; PRIOR FILING DATE: 2002-10-08  
;; NUMBER OF SEQ ID NOS: 2503  
;; SOFTWARE: PatentIn version 3.3  
;; SEQ ID NO 560  
;; LENGTH: 10  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus  
US-10-530-061-560

Query Match 71.7%; Score 38; DB 9; Length 10;  
Best Local Similarity 85.7%; Pred. No. 2.2;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 4 IACVCK 10

RESULT 9  
US-10-530-253-20

;; Sequence 20, Application US/10530253  
;; Publication No. US20060014926A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Casasetti, Maria C.  
;; APPLICANT: Smith, Larry  
;; APPLICANT: Jeffrey K. Pullen  
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
;; FILE REFERENCE: 00630/100M137-US2  
;; CURRENT APPLICATION NUMBER: US/10/530,253  
;; PRIOR FILING DATE: 2005-04-04  
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
;; PRIOR FILING DATE: 2003-10-02  
;; PRIOR APPLICATION NUMBER: US 60/415,929  
;; PRIOR FILING DATE: 2002-10-03  
;; NUMBER OF SEQ ID NOS: 65  
;; SOFTWARE: PatentIn version 3.1  
;; SEQ ID NO 20  
;; LENGTH: 158  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus type 45  
US-10-530-253-20

Query Match 71.7%; Score 38; DB 9; Length 158;  
Best Local Similarity 85.7%; Pred. No. 18;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 30 IACVCK 36

RESULT 10  
US-10-530-061-493

;; Sequence 493, Application US/10530061  
;; Publication No. US20060079453A1  
;; GENERAL INFORMATION:  
;; APPLICANT: SIDNEY, JOHN  
;; APPLICANT: SOUTHWOOD, SCOTT  
;; APPLICANT: SETTE, ALESSANDRO  
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
;; FILE REFERENCE: 2060.033US02/EKS/M-M  
;; CURRENT APPLICATION NUMBER: US/10/530,061  
;; PRIOR FILING DATE: 2005-04-04  
;; PRIOR APPLICATION NUMBER: PCT/US03/31308  
;; PRIOR FILING DATE: 2003-10-03  
;; PRIOR APPLICATION NUMBER: 60/416,207  
;; PRIOR FILING DATE: 2002-10-03  
;; PRIOR APPLICATION NUMBER: 60/417,269  
;; NUMBER OF SEQ ID NOS: 2503  
;; SOFTWARE: PatentIn version 3.3  
;; SEQ ID NO 493

;; LENGTH: 11  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus  
US-10-530-061-493

Query Match 69.8%; Score 37; DB 9; Length 11;  
Best Local Similarity 71.4%; Pred. No. 3.4;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 4 LSCVCK 10

RESULT 11

US-10-530-061-1691  
;; Sequence 1691, Application US/10530061  
;; Publication No. US20060079453A1  
;; GENERAL INFORMATION:  
;; APPLICANT: SIDNEY, JOHN  
;; APPLICANT: SOUTHWOOD, SCOTT  
;; APPLICANT: SETTE, ALESSANDRO  
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
;; FILE REFERENCE: 2060.033US02/EKS/M-M  
;; CURRENT APPLICATION NUMBER: US/10/530,061  
;; PRIOR FILING DATE: 2005-04-04  
;; PRIOR APPLICATION NUMBER: PCT/US03/31308  
;; PRIOR FILING DATE: 2003-10-03  
;; PRIOR APPLICATION NUMBER: 60/416,207  
;; PRIOR FILING DATE: 2002-10-03  
;; PRIOR APPLICATION NUMBER: 60/417,269  
;; PRIOR FILING DATE: 2002-10-08  
;; NUMBER OF SEQ ID NOS: 2503  
;; SOFTWARE: PatentIn version 3.3  
;; SEQ ID NO 1691  
;; LENGTH: 15  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus  
US-10-530-061-1691

Query Match 69.8%; Score 37; DB 9; Length 15;  
Best Local Similarity 71.4%; Pred. No. 4.3;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVCK 8  
Db 9 LSCVCK 15

RESULT 12

US-10-530-253-23  
;; Sequence 23, Application US/10530253  
;; Publication No. US20060014926A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Casasetti, Maria C.  
;; APPLICANT: Smith, Larry  
;; APPLICANT: Jeffrey K. Pullen  
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
;; FILE REFERENCE: 00630/100M137-US2  
;; CURRENT APPLICATION NUMBER: US/10/530,253  
;; PRIOR FILING DATE: 2005-04-04  
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
;; PRIOR FILING DATE: 2003-10-02  
;; PRIOR APPLICATION NUMBER: US 60/415,929  
;; PRIOR FILING DATE: 2002-10-03  
;; NUMBER OF SEQ ID NOS: 65  
;; SOFTWARE: PatentIn version 3.1  
;; SEQ ID NO 23  
;; LENGTH: 155  
;; TYPE: PRT  
;; ORGANISM: Human papillomavirus type 56  
US-10-530-253-23



Query Match 69.8%; Score 37; DB 9; Length 155;  
Best Local Similarity 71.4%; Pred. No. 26;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 31 LSCVYCK 37

RESULT 13  
US-10-530-061-1667  
; Sequence 1667, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.03US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1667  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-1667

Query Match 67.9%; Score 36; DB 9; Length 15;  
Best Local Similarity 71.4%; Pred. No. 6.3;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 9 LNCVYCK 15

RESULT 14  
US-10-530-253-16  
; Sequence 16, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 16  
; LENGTH: 149  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 31  
US-10-530-253-16

Query Match 67.9%; Score 36; DB 9; Length 149;  
Best Local Similarity 71.4%; Pred. No. 37;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 28 LNCVYCK 34

RESULT 15  
US-10-530-253-18  
; Sequence 18, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 18  
; LENGTH: 149  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 35  
US-10-530-253-18

Query Match 67.9%; Score 36; DB 9; Length 149;  
Best Local Similarity 71.4%; Pred. No. 37;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
: |||||  
Db 28 LNCVYCK 34

RESULT 16  
US-11-188-298-18431  
; Sequence 18431, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 18431  
; LENGTH: 769  
; TYPE: PRT  
; ORGANISM: Panax ginseng  
US-11-188-298-18431

Query Match 67.9%; Score 36; DB 11; Length 769;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EITCVYCK 8  
: |||||  
Db 727 EITCVYCK 734

RESULT 17  
US-10-530-061-620  
; Sequence 620, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:

```

; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 620
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-620
```

```
Query Match          66.0%; Score 35; DB 9; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.9e+05;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 ITCVCK 8
        :|||||
Db       3 IACVCR 9
```

```

RESULT 18
; Sequence 561, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 561
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-561
```

```
Query Match          66.0%; Score 35; DB 9; Length 10;
Best Local Similarity 71.4%; Pred. No. 6.7;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 ITCVCK 8
        :|||||
Db       4 IACVCR 10
```

```

RESULT 19
US-10-530-061-1692
; Sequence 1692, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
```

```

; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1692
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1692
```

```
Query Match          66.0%; Score 35; DB 9; Length 15;
Best Local Similarity 83.3%; Pred. No. 9.1;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 TCVCK 8
        :|||||
Db       1 SCVCK 6
```

```

RESULT 20
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13
```

```
Query Match          66.0%; Score 35; DB 9; Length 151;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 ITCVCK 8
        :|||||
Db      28 LECVCK 34
```

```

RESULT 21
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
```

```

; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match          66.0%; Score 35; DB 9; Length 158;
Best Local Similarity 71.4%; Pred. No. 55;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
        : |||||
        : 30 IACVYCR 36

RESULT 22
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: Healthbanc Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match          66.0%; Score 35; DB 11; Length 158;
Best Local Similarity 71.4%; Pred. No. 55;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
        : |||||
        : 35 IECVYCK 41

Db

RESULT 23
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1
```

```

Query Match          66.0%; Score 35; DB 9; Length 248;
Best Local Similarity 71.4%; Pred. No. 78;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
        : |||||
        : 28 IECVYCK 34

Db

RESULT 24
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match          66.0%; Score 35; DB 9; Length 248;
Best Local Similarity 71.4%; Pred. No. 78;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCK 8
        : |||||
        : 28 IECVYCK 34

Db

RESULT 25
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match          66.0%; Score 35; DB 9; Length 248;
Best Local Similarity 71.4%; Pred. No. 78;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

QY 2 ITCYCK 8  
: |||||  
Db 28 LECYCK 34

RESULT 26  
US-10-530-253-7  
; Sequence 7, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-7

Query Match 66.0%; Score 35; DB 9; Length 248;  
Best Local Similarity 71.4%; Pred. No. 78;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 125 LECYCK 131

RESULT 27  
US-10-530-253-9  
; Sequence 9, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-9

Query Match 66.0%; Score 35; DB 9; Length 248;  
Best Local Similarity 71.4%; Pred. No. 78;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 125 LECYCK 131

RESULT 28  
US-10-530-253-11  
; Sequence 11, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-11

Query Match 66.0%; Score 35; DB 9; Length 248;  
Best Local Similarity 71.4%; Pred. No. 78;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 125 LECYCK 131

RESULT 29  
US-11-192-923A-2  
; Sequence 2, Application US/11192923A  
; Publication No. US20060018928A1  
; GENERAL INFORMATION:  
; APPLICANT: PANG, XIAOMU  
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS  
; FILE REFERENCE: 116620-003  
; CURRENT APPLICATION NUMBER: US/11/192,923A  
; CURRENT FILING DATE: 2005-07-29  
; PRIOR APPLICATION NUMBER: CN 03115272.4  
; PRIOR FILING DATE: 2003-01-30  
; PRIOR APPLICATION NUMBER: CN 03115273.2  
; PRIOR FILING DATE: 2003-01-30  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 2  
; LENGTH: 256  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-11-192-923A-2

Query Match 66.0%; Score 35; DB 11; Length 256;  
Best Local Similarity 71.4%; Pred. No. 80;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCYCK 8  
: |||||  
Db 133 LECYCK 139

RESULT 30  
US-11-087-099-4918  
; Sequence 4918, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement

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; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 4918
; LENGTH: 352
; TYPE: PRT
; ORGANISM: Lactobacillus plantarum WCFS1
US-11-087-099-4918

Query Match          66.0%; Score 35; DB 11; Length 352;
Best Local Similarity 83.3%; Pred. No. 1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 TCYVCK 8
        |||||
Db      94 TCYVCK 99

RESULT 31
US-10-455-772-1074
; Sequence 1074, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/386355
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: Curaseqblast version 0.1
; SEQ ID NO 1074
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1074

Query Match          66.0%; Score 35; DB 9; Length 850;
Best Local Similarity 50.0%; Pred. No. 2e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCKT 9
        :|||:
Db      639 VTCVYCKNS 646

RESULT 32
US-10-455-772-1078
; Sequence 1078, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.

; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: Curaseqblast version 0.1
; SEQ ID NO 1078
; LENGTH: 911
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1078

Query Match          66.0%; Score 35; DB 9; Length 911;
Best Local Similarity 50.0%; Pred. No. 2.1e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      2 ITCVYCKT 9
        :|||:
Db      639 VTCVYCKNS 646

RESULT 33
US-10-455-772-1076
; Sequence 1076, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsobrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: Curaseqblast version 0.1
; SEQ ID NO 1076
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-1076
```

NUMBER OF SEQ ID NOS: 1540  
SOFTWARE: Curaseqblast version 0.1  
SEQ ID NO 1076  
LENGTH: 915  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-455-772-1076

Query Match 66.0%; Score 35; DB 9; Length 915;  
Best Local Similarity 50.0%; Pred. No. 2.1e+02;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ITCVCKT 9  
Db 643 VTCIXCNS 650

## RESULT 34

US-10-455-772-1080  
Sequence 1080, Application US/10455772  
Publication No. US20060084054A1  
GENERAL INFORMATION:  
APPLICANT: John Alsbrook et al.  
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
FILE REFERENCE: 21402-589C  
CURRENT APPLICATION NUMBER: US/10/455,772  
PRIOR FILING DATE: 2003-06-04  
PRIOR APPLICATION NUMBER: 60/385615  
PRIOR FILING DATE: 2002-06-04  
PRIOR APPLICATION NUMBER: 60/402268  
PRIOR FILING DATE: 2002-08-09  
PRIOR APPLICATION NUMBER: 60/387606  
PRIOR FILING DATE: 2002-06-11  
PRIOR APPLICATION NUMBER: 60/386357  
PRIOR FILING DATE: 2002-06-06  
PRIOR APPLICATION NUMBER: 60/385755  
PRIOR FILING DATE: 2002-06-04  
PRIOR APPLICATION NUMBER: 60/386355  
PRIOR FILING DATE: 2002-06-06  
PRIOR APPLICATION NUMBER: 60/386490  
PRIOR FILING DATE: 2002-06-04  
PRIOR APPLICATION NUMBER: 60/420718  
PRIOR FILING DATE: 2002-10-23  
PRIOR APPLICATION NUMBER: 60/386447  
PRIOR FILING DATE: 2002-06-06  
PRIOR APPLICATION NUMBER: 60/386465  
PRIOR FILING DATE: 2002-06-06  
Remainder Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1540  
SOFTWARE: Curaseqblast version 0.1  
SEQ ID NO 1080  
LENGTH: 921  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-455-772-1080

Query Match 66.0%; Score 35; DB 9; Length 921;  
Best Local Similarity 50.0%; Pred. No. 2.1e+02;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ITCVCKT 9  
Db 639 VTCIXCNS 646

## RESULT 35

US-10-530-061-55  
Sequence 55, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO

TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 55  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-55

Query Match 64.2%; Score 34; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 9.6;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVY 6  
Db 5 EITCVY 10

## RESULT 36

US-10-530-061-112  
Sequence 112, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 112  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-112

Query Match 64.2%; Score 34; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 9.6;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EITCVY 6  
Db 5 EITCVY 10

## RESULT 37

US-10-530-061-562  
Sequence 562, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061

CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 562  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-562

Query Match 64.2%; Score 34; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 9.6;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVYCK 8  
| | | |  
DB 1 CVYCK 5

RESULT 38  
US-11-079-463-5531  
Sequence 5531, Application US/11079463  
Publication No. US20060073161A1  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR  
FILE REFERENCE: PAT00-03DIV2  
CURRENT APPLICATION NUMBER: US/11/079,463  
CURRENT FILING DATE: 2005-03-14  
PRIOR APPLICATION NUMBER: US 60/128,705  
PRIOR FILING DATE: 1999-04-09  
PRIOR APPLICATION NUMBER: US 09/540,209  
PRIOR FILING DATE: 2000-04-04  
NUMBER OF SEQ ID NOS: 10444  
SEQ ID NO 5531  
LENGTH: 122  
TYPE: PRT  
ORGANISM: B. fragilis  
US-11-079-463-5531

Query Match 64.2%; Score 34; DB 11; Length 122;  
Best Local Similarity 100.0%; Pred. No. 66;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVYCK 8  
| | | |  
DB 46 CVYCK 50

RESULT 39  
US-10-530-253-39  
Sequence 39, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassecci, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.1  
SEQ ID NO 39  
LENGTH: 152  
TYPE: PRT  
ORGANISM: Human papillomavirus  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (1)-(152)  
OTHER INFORMATION: where Xaa is any amino acid  
US-10-530-253-39

Query Match 64.2%; Score 34; DB 9; Length 152;  
Best Local Similarity 100.0%; Pred. No. 78;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CVYCK 8  
| | | |  
DB 32 CVYCK 36

RESULT 40  
US-10-530-253-26  
Sequence 26, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassecci, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 26  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 68  
US-10-530-253-26

Query Match 64.2%; Score 34; DB 9; Length 158;  
Best Local Similarity 71.4%; Pred. No. 80;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 ITCVYCK 8  
| | | |  
DB 30 IDCVYCR 36

RESULT 41  
US-10-530-253-25  
Sequence 25, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Cassecci, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1

SEQ ID NO 25  
LENGTH: 160  
TYPE: PRT  
ORGANISM: Human papillomavirus type 59  
US-10-530-253-25

Query Match  
Best Local Similarity 71.4%; Score 34; DB 9; Length 160;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TCVYCK 8  
DB 30 INCVCK 36

RESULT 42  
US-10-501-035-342  
Sequence 342, Application US/10501035  
Publication No. US20060046249A1  
GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company  
TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING  
TITLE OF INVENTION: ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE  
FILE REFERENCE: D0185 PCT  
CURRENT APPLICATION NUMBER: US/10/501,035  
CURRENT FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: US 60/350,061  
NUMBER OF SEQ ID NOS: 795  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 342  
LENGTH: 341  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-501-035-342

Query Match  
Best Local Similarity 50.0%; Score 34; DB 9; Length 341;  
Matches 4; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 TCVYCKT 9  
DB 36 VKCTYCKT 43

RESULT 43  
US-11-087-099-1673  
Sequence 1673, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 1673  
LENGTH: 349  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes MGAS315  
US-11-087-099-1673

Query Match  
Best Local Similarity 83.3%; Score 34; DB 11; Length 349;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8  
DB 92 TCVYCK 97

RESULT 44

US-11-087-099-3545  
Sequence 3545, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 3545  
LENGTH: 349  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes MGAS8232  
US-11-087-099-3545

Query Match  
Best Local Similarity 83.3%; Score 34; DB 11; Length 349;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8  
DB 92 TCVYCK 97

RESULT 45  
US-11-087-099-7966  
Sequence 7966, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 7966  
LENGTH: 349  
TYPE: PRT  
ORGANISM: Streptococcus pyogenes M1 GAS  
US-11-087-099-7966

Query Match  
Best Local Similarity 83.3%; Score 34; DB 11; Length 349;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8  
DB 92 TCVYCK 97

RESULT 46  
US-11-087-099-2242  
Sequence 2242, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 2242  
LENGTH: 351  
TYPE: PRT  
ORGANISM: Streptococcus agalactiae NEM316  
US-11-087-099-2242

Query Match  
Best Local Similarity 83.3%; Score 34; DB 11; Length 351;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCVYCK 8



Db 92 TCYCYCK 97

RESULT 47  
US-11-087-099-8245  
; Sequence 8245, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 8245  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Streptococcus agalactiae 2603V/R  
US-11-087-099-8245

Query Match 64.2%; Score 34; DB 11; Length 351;  
Best Local Similarity 83.3%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCYCYCK 8  
Db 92 TCYCYCK 97

RESULT 48  
US-10-506-454-307  
; Sequence 307, Application US/10506454  
; Publication No. US20060068386A1  
; GENERAL INFORMATION:  
; APPLICANT: Slesarev, Alexi I  
; APPLICANT: Mezhevaya, Katja V  
; APPLICANT: Polushin, Nikolai N  
; APPLICANT: Shcherbinina, Olga V  
; APPLICANT: Shakhova, Vera V  
; APPLICANT: Mal'kh, Andrei G  
; APPLICANT: Kozayavkin, Sergei A  
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens  
; TITLE OF INVENTION: and Methods of Use Thereof  
; FILE REFERENCE: FID001  
; CURRENT APPLICATION NUMBER: US/10/506,454  
; CURRENT FILING DATE: 2004-08-31  
; PRIOR APPLICATION NUMBER: PCT/US03/06664  
; PRIOR FILING DATE: 2003-03-04  
; PRIOR APPLICATION NUMBER: 60/361,742  
; PRIOR FILING DATE: 2002-03-04  
; NUMBER OF SEQ ID NOS: 1722  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 307  
; LENGTH: 357  
; TYPE: PRT  
; ORGANISM: Methanopyrus kandleri  
US-10-506-454-307

Query Match 64.2%; Score 34; DB 9; Length 357;  
Best Local Similarity 62.5%; Pred. No. 1.5e+02;  
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EITCYCYCK 8  
Db 153 EERKCYCYCK 160

RESULT 49  
US-11-072-512-3033  
; Sequence 3033, Application US/11072512  
; Publication No. US20060029945A1

; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO  
; APPLICANT: SUGIYAMA, TOMOYASU  
; APPLICANT: OTSUKI, TETSUJI  
; APPLICANT: WAKAMATSU, AI  
; APPLICANT: SATO, HIROYUKI  
; APPLICANT: ISHII, SHIZUKO  
; APPLICANT: YAMAMOTO, JUN-ICHI  
; APPLICANT: ISONO, YUTKO  
; APPLICANT: HIO, YURI  
; APPLICANT: OTSUKA, KAORU  
; APPLICANT: NAGAI, KEIICHI  
; APPLICANT: IRIE, RYOFARO  
; APPLICANT: TAMECHIKA, ICHIRO  
; APPLICANT: SEKI, NAOHICO  
; APPLICANT: YOSHIKAWA, TSUTOMU  
; APPLICANT: OTSUKA, MOTOMYUKI  
; APPLICANT: NAGAHARI, KENJI  
; APPLICANT: MASUHO, YASUHIKO  
; TITLE OF INVENTION: Novel full length cDNA  
; FILE REFERENCE: 084335-0191  
; CURRENT APPLICATION NUMBER: US/11/072,512  
; CURRENT FILING DATE: 2005-03-07  
; PRIOR APPLICATION NUMBER: US 60/350,978  
; PRIOR FILING DATE: 2002-01-25  
; PRIOR APPLICATION NUMBER: JP 2001-379298  
; PRIOR FILING DATE: 2001-11-05  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3033  
; LENGTH: 433  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-072-512-3033

Query Match 64.2%; Score 34; DB 11; Length 433;  
Best Local Similarity 71.4%; Pred. No. 1.7e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCYCYCK 9  
Db 397 TCPCFCKT 403

RESULT 50  
US-10-467-657-4056  
; Sequence 4056, Application US/10467657  
; Publication No. US20050260581A1  
; GENERAL INFORMATION:  
; APPLICANT: CHIRON SPA  
; APPLICANT: FONTANA Maria Rita  
; APPLICANT: PIZZA Mariagrazia  
; APPLICANT: MANSIGNI Vega  
; APPLICANT: MONACI Elisabetta  
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/467,657  
; CURRENT FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: GB-0103424.8  
; PRIOR FILING DATE: 2001-02-12  
; NUMBER OF SEQ ID NOS: 9218  
; SOFTWARE: Seqwin99, version 1.04  
; SEQ ID NO 4056  
; LENGTH: 602  
; TYPE: PRT  
; ORGANISM: Neisseria gonorrhoeae  
US-10-467-657-4056

Query Match 64.2%; Score 34; DB 9; Length 602;  
Best Local Similarity 83.3%; Pred. No. 2.2e+02;  
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CYCYCK 9

Db 571 CVHCKT 576

Search completed: May 5, 2006, 08:51:39  
Job time : 10.4 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds  
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Title: US-08-170-344-25  
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Sequence: 1 KTVLELTV 9

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Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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4: /cgn2\_6/ptodata/1/1aa/PCITUS COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RE COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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2	41	100.0	158	1	US-08-247-904B-10
3	41	100.0	158	2	US-08-767-942A-19
4	41	100.0	271	1	US-08-117-083-14
5	41	100.0	278	2	US-09-485-885-21
6	41	100.0	383	2	US-09-485-885-23
7	35	85.4	270	2	US-09-107-532A-5220
8	33	80.5	77	2	US-09-621-976-5771
9	33	80.5	84	1	US-08-605-163-22
10	33	80.5	500	1	US-07-755-573C-8
11	33	80.5	500	2	US-09-519-878-2
12	33	80.5	504	2	US-09-519-878-4
13	33	80.5	520	2	US-09-949-016-10586
14	33	80.5	386	2	US-09-902-540-11825
15	31	75.6	489	2	US-09-902-540-16694
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17	31	75.6	496	2	US-09-292-768-2
18	31	75.6	496	2	US-09-292-768-64
19	31	75.6	496	2	US-09-292-768-66
20	31	75.6	496	2	US-09-172-339-6
21	31	75.6	575	2	US-09-107-532A-5733
22	31	75.6	1128	2	US-09-328-352-4973
23	30	73.2	166	2	US-09-107-532A-5004
24	30	73.2	180	2	US-09-270-767-58131
25	30	73.2	202	2	US-09-540-236-2012
26	30	73.2	230	2	US-09-248-796A-18704
27	30	73.2	302	2	US-09-710-279-3062

28	30	73.2	315	2	US-09-134-001C-4521	Sequence 4521, Ap
29	30	73.2	468	2	US-09-712-363-268	Sequence 268, App
30	30	73.2	493	2	US-09-270-767-42815	Sequence 42815, A
31	30	73.2	519	2	US-09-198-452A-561	Sequence 561, App
32	30	73.2	521	2	US-09-438-185A-523	Sequence 523, App
33	30	73.2	561	2	US-09-233-989-5	Sequence 5, Appl1
34	30	73.2	758	2	US-09-107-532A-5096	Sequence 5096, Ap
35	30	73.2	742	1	US-07-921-807B-2	Sequence 2, Appl1
36	30	73.2	742	1	US-08-441-944A-2	Sequence 2, Appl1
37	30	73.2	1501	1	US-08-447-464-3	Sequence 3, Appl1
38	30	73.2	1501	1	US-08-716-679-3	Sequence 3, Appl1
39	30	73.2	1681	2	US-09-920-068B-5	Sequence 5, Appl1
40	30	73.2	1911	1	US-08-348-006B-5	Sequence 5, Appl1
41	30	73.2	1911	2	US-08-800-825A-5	Sequence 5, Appl1
42	30	73.2	1911	2	US-09-158-657-5	Sequence 5, Appl1
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44	29	70.7	62	2	US-09-513-999C-4219	Sequence 4219, Ap
45	29	70.7	72	2	US-09-513-999C-4220	Sequence 4220, Ap
46	29	70.7	94	2	US-09-902-540-11096	Sequence 11096, A
47	29	70.7	121	2	US-09-248-796A-14182	Sequence 14182, A
48	29	70.7	124	2	US-09-513-999C-4218	Sequence 4218, Ap
49	29	70.7	131	2	US-09-710-279-3086	Sequence 3086, Ap
50	29	70.7	136	2	US-09-513-999C-7844	Sequence 7844, Ap
51	29	70.7	176	2	US-09-540-236-2589	Sequence 2589, Ap
52	29	70.7	234	2	US-10-000-489-20	Sequence 20, Appl1
53	29	70.7	238	6	5405843-2	Patent No. 5405943
54	29	70.7	295	2	US-09-248-796A-24830	Sequence 24830, A
55	29	70.7	303	6	5340934-13	Patent No. 5340934
56	29	70.7	336	2	US-09-583-110-3957	Sequence 3957, Ap
57	29	70.7	337	2	US-09-107-433-2997	Sequence 2997, Ap
58	29	70.7	355	2	US-10-314-048A-18	Sequence 18, Appl1
59	29	70.7	387	2	US-09-107-532A-5932	Sequence 5932, Ap
60	29	70.7	436	6	5405943-4	Patent No. 5405943
61	29	70.7	492	2	US-09-252-991A-22862	Sequence 22862, A
62	29	70.7	534	2	US-09-248-796A-17839	Sequence 17839, A
63	29	70.7	640	2	US-09-786-474-2	Sequence 2, Appl1
64	29	70.7	765	2	US-08-444-818-70	Sequence 70, Appl1
65	29	70.7	999	2	US-09-747-371-2	Sequence 2, Appl1
66	29	70.7	1007	2	US-09-957-005-6	Sequence 9, Appl1
67	29	70.7	85	2	US-09-270-767-59984	Sequence 5984, A
68	28	68.3	88	2	US-09-461-325-325	Sequence 325, App
69	28	68.3	88	2	US-10-012-542-325	Sequence 325, App
70	28	68.3	88	2	US-10-115-123-325	Sequence 325, App
71	28	68.3	138	2	US-09-328-352-7972	Sequence 7972, Ap
72	28	68.3	135	2	US-09-270-767-44537	Sequence 44537, A
73	28	68.3	162	2	US-09-370-838-93	Sequence 93, Appl1
74	28	68.3	283	2	US-09-854-123-93	Sequence 93, Appl1
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76	28	68.3	310	2	US-09-071-035-412	Sequence 412, App
77	28	68.3	336	2	US-09-198-452A-367	Sequence 367, App
78	28	68.3	336	2	US-09-438-185A-351	Sequence 351, App
79	28	68.3	347	2	US-09-071-035-410	Sequence 410, App
80	28	68.3	347	2	US-10-206-576-410	Sequence 410, App
81	28	68.3	348	2	US-09-902-540-14234	Sequence 14234, A
82	28	68.3	349	2	US-09-134-000C-5660	Sequence 5660, Ap
83	28	68.3	468	1	US-08-459-287-2	Sequence 2, Appl1
84	28	68.3	468	1	US-08-459-287-3	Sequence 3, Appl1
85	28	68.3	468	2	US-08-764-870-8	Sequence 8, Appl1
86	28	68.3	468	2	US-08-980-115-8	Sequence 8, Appl1
87	28	68.3	468	2	US-09-662-386-2	Sequence 2, Appl1
88	28	68.3	468	2	US-09-166-266-3	Sequence 3, Appl1
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90	28	68.3	468	2	US-10-329-668-12	Sequence 12, Appl1
91	28	68.3	469	2	US-09-949-016-10936	Sequence 10936, A
92	28	68.3	480	1	US-07-803-636A-2	Sequence 12238, A
93	28	68.3	509	2	US-09-949-016-9662	Sequence 9462, App
94	28	68.3	516	2	US-09-248-796A-15473	Sequence 15473, A
95	28	68.3	578	2	US-09-248-796A-16194	Sequence 16194, A
96	28	68.3	600	1	US-08-821-119-19	Sequence 19, Appl1
97	28	68.3	600	1	US-08-821-119-2	Sequence 2, Appl1
98	28	68.3	702	2	US-09-949-016-7702	Sequence 7302, Ap
99	28	68.3	732	2	US-10-160-748-6	Sequence 6, Appl1
100	28	68.3	732	2	US-10-160-748-6	Sequence 6, Appl1

101	28	68.3	796	2	US-10-104-047-2293	Sequence 2293, Ap	174	27	65.9	714	2	US-09-949-016-7038	Sequence 7038, Ap
102	28	68.3	876	2	US-09-328-352-5197	Sequence 5197, Ap	175	27	65.9	815	2	US-09-489-039A-11317	Sequence 11317, A
103	28	68.3	976	2	US-09-104-324B-4	Sequence 4, Appl	176	27	65.9	1128	2	US-09-590-101A-8	Sequence 8, Appl
104	28	68.3	976	2	US-09-538-082-1339	Sequence 1339, Ap	177	27	65.9	1131	2	US-09-590-101A-10	Sequence 10, Appl
105	28	68.3	1184	1	US-08-446-038B-20	Sequence 20, Appl	178	27	65.9	1447	2	US-09-302-540-16727	Sequence 16727, A
106	28	68.3	1184	1	US-08-446-010B-20	Sequence 20, Appl	179	27	65.9	1457	2	US-09-436-874-2	Sequence 2, Appl
107	28	68.3	1184	1	US-08-805-445-20	Sequence 20, Appl	180	27	65.9	1457	2	US-09-713-273A-18	Sequence 18, Appl
108	28	68.3	1184	1	US-08-064-067D-20	Sequence 20, Appl	181	27	65.9	1657	1	US-08-287-959-1	Sequence 1, Appl
109	28	68.3	1184	1	US-09-066-208-20	Sequence 20, Appl	182	27	65.9	1657	2	US-09-949-016-6447	Sequence 6427, Ap
110	28	68.3	1187	1	US-08-357-558-8	Sequence 8, Appl	183	27	65.9	1666	2	US-09-902-540-15792	Sequence 15792, A
111	28	68.3	1187	1	US-08-097-997A-13	Sequence 13, Appl	184	27	65.9	1678	2	US-09-949-016-9445	Sequence 9445, Ap
112	28	68.3	1187	2	US-09-003-289-8	Sequence 8, Appl	185	27	65.9	4928	2	US-09-949-016-9445	Sequence 5, Appl
113	28	68.3	1187	2	US-08-665-574C-13	Sequence 13, Appl	186	27	65.9	4928	2	US-09-036-987A-5	Sequence 5, Appl
114	28	68.3	1187	2	US-08-946-994-13	Sequence 13, Appl	187	27	65.9	4928	2	US-09-603-207-5	Sequence 5, Appl
115	28	68.3	1187	2	US-09-972-800A-18	Sequence 18, Appl	188	27	65.9	4928	2	US-09-187-789-66	Sequence 66, Appl
116	28	68.3	1187	4	PCT-US95-16435-8	Sequence 8, Appl	189	27	65.9	15	2	US-09-139-600-61	Sequence 61, Appl
117	28	68.3	1195	2	US-09-540-236-3165	Sequence 3165, Ap	190	27	65.9	15	2	US-09-989-903-66	Sequence 66, Appl
118	28	68.3	1380	2	US-09-328-352-8132	Sequence 8132, Ap	191	27	65.9	33	2	US-09-324-455-18	Sequence 18, Appl
119	28	68.3	2182	1	US-08-487-826B-16	Sequence 16, Appl	192	27	65.9	64	2	US-09-924-455-18	Sequence 18, Appl
120	27	65.9	9	2	US-08-159-339A-562	Sequence 562, Ap	193	26	63.4	66	2	US-09-134-007C-4088	Sequence 4088, Ap
121	27	65.9	59	1	US-08-287-959-19	Sequence 19, Appl	194	26	63.4	72	2	US-09-248-796A-22506	Sequence 22506, Ap
122	27	65.9	72	2	US-10-178-213-203	Sequence 203, App	195	26	63.4	89	2	US-09-248-796A-25075	Sequence 25075, A
123	27	65.9	75	2	US-09-248-796A-22129	Sequence 22129, A	196	26	63.4	96	2	US-09-722-377-29	Sequence 29, Appl
124	27	65.9	87	2	US-09-270-767-46562	Sequence 46562, A	197	26	63.4	104	2	US-09-717-321A-37	Sequence 37, Appl
125	27	65.9	86	2	US-09-949-016-10688	Sequence 10688, A	198	26	63.4	115	2	US-09-640-211A-757	Sequence 757, Appl
126	27	65.9	94	2	US-09-489-039A-13593	Sequence 13593, A	199	26	63.4	118	2	US-09-540-236-2948	Sequence 2948, Ap
127	27	65.9	135	2	US-09-338-352-4505	Sequence 4505, Ap	200	26	63.4	120	2	US-09-328-352-6848	Sequence 6848, Ap
128	27	65.9	147	2	US-09-270-767-35844	Sequence 35844, A	201	26	63.4	132	2	US-09-198-452A-96	Sequence 96, Appl
129	27	65.9	147	2	US-09-270-767-51061	Sequence 51061, A	202	26	63.4	134	2	US-09-248-796A-19702	Sequence 19702, A
130	27	65.9	151	2	US-09-248-796A-28149	Sequence 28149, A	203	26	63.4	134	2	US-09-438-185A-82	Sequence 82, Appl
131	27	65.9	171	2	US-09-270-767-16481	Sequence 36481, A	204	26	63.4	137	2	US-09-582-337-24	Sequence 24, Appl
132	27	65.9	171	2	US-09-270-767-51698	Sequence 51698, A	205	26	63.4	141	2	US-09-543-681A-5683	Sequence 5683, Ap
133	27	65.9	174	2	US-09-732-210-1230	Sequence 1230, Ap	206	26	63.4	150	2	US-09-543-681A-5114	Sequence 5114, Ap
134	27	65.9	189	2	US-09-477-135A-137	Sequence 137, App	207	26	63.4	151	2	US-09-605-703B-1748	Sequence 1748, Ap
135	27	65.9	202	2	US-09-252-991A-19028	Sequence 19028, A	208	26	63.4	152	2	US-09-270-767-37019	Sequence 37019, A
136	27	65.9	209	2	US-09-489-039A-7911	Sequence 7911, Ap	209	26	63.4	152	2	US-09-270-767-52236	Sequence 52236, A
137	27	65.9	214	2	US-09-543-681A-4863	Sequence 4863, Ap	210	26	63.4	156	2	US-09-107-533A-6611	Sequence 6611, Ap
138	27	65.9	257	2	US-09-764-803B-2	Sequence 2, Appl	211	26	63.4	156	2	US-09-489-039A-13303	Sequence 13303, A
139	27	65.9	260	2	US-09-187-789-2	Sequence 2, Appl	212	26	63.4	166	2	US-09-107-533A-4850	Sequence 4850, Ap
140	27	65.9	260	2	US-09-139-600-2	Sequence 2, Appl	213	26	63.4	169	2	US-09-732-210-1228	Sequence 1228, Ap
141	27	65.9	260	2	US-09-989-903-2	Sequence 2, Appl	214	26	63.4	173	2	US-09-732-210-1615	Sequence 1615, Ap
142	27	65.9	295	1	US-08-411-706-4	Sequence 4, Appl	215	26	63.4	179	2	US-09-270-767-33391	Sequence 33391, A
143	27	65.9	327	2	US-09-107-532A-4796	Sequence 4796, Ap	216	26	63.4	179	2	US-09-270-767-54608	Sequence 54608, A
144	27	65.9	340	2	US-09-134-001C-5182	Sequence 5182, Ap	217	26	63.4	179	2	US-09-248-796A-17828	Sequence 17828, A
145	27	65.9	352	2	US-09-248-796A-18154	Sequence 18154, A	218	26	63.4	180	2	US-09-732-210-1614	Sequence 1614, Ap
146	27	65.9	360	2	US-09-107-532A-3769	Sequence 3769, Ap	219	26	63.4	183	2	US-09-107-533A-5644	Sequence 5644, Ap
147	27	65.9	361	2	US-09-248-796A-19219	Sequence 19219, A	220	26	63.4	199	2	US-09-270-767-42804	Sequence 42804, A
148	27	65.9	374	2	US-09-787-084-2	Sequence 4, Appl	221	26	63.4	200	2	US-08-946-914-8	Sequence 8, Appl
149	27	65.9	375	2	US-09-787-084-2	Sequence 4, Appl	222	26	63.4	200	2	US-09-656-914-8	Sequence 8, Appl
150	27	65.9	377	2	US-09-248-796A-15498	Sequence 15498, A	223	26	63.4	215	2	US-08-841-349-7	Sequence 7, Appl
151	27	65.9	405	2	US-09-252-991A-24036	Sequence 24036, A	224	26	63.4	220	1	US-09-431-184A-7	Sequence 7, Appl
152	27	65.9	428	2	US-09-134-001C-2885	Sequence 2885, Ap	225	26	63.4	220	1	US-09-431-184A-7	Sequence 7, Appl
153	27	65.9	435	2	US-09-248-796A-15742	Sequence 15742, A	226	26	63.4	221	2	US-09-134-000C-5016	Sequence 5016, Ap
154	27	65.9	439	1	US-08-333-358-10	Sequence 10, Appl	227	26	63.4	221	2	US-09-270-767-31937	Sequence 31937, A
155	27	65.9	439	1	US-08-463-694-10	Sequence 10, Appl	228	26	63.4	221	2	US-09-270-767-47154	Sequence 47154, A
156	27	65.9	439	1	US-08-694-501-10	Sequence 10, Appl	229	26	63.4	229	2	US-09-489-039A-14111	Sequence 14111, A
157	27	65.9	440	1	US-08-484-200-4	Sequence 4, Appl	230	26	63.4	238	2	US-09-145-828A-13	Sequence 13, Appl
158	27	65.9	440	2	US-10-329-668-14	Sequence 14, Appl	231	26	63.4	238	2	US-09-903-456-20	Sequence 20, Appl
159	27	65.9	441	2	US-08-764-870-9	Sequence 9, Appl	232	26	63.4	238	2	US-09-624-670-19	Sequence 19, Appl
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161	27	65.9	441	2	US-09-976-594-1000	Sequence 1000, Ap	234	26	63.4	243	2	US-09-248-796A-17173	Sequence 17173, A
162	27	65.9	441	2	US-09-166-265-7	Sequence 7, Appl	235	26	63.4	246	2	US-09-688-065-111	Sequence 111, App
163	27	65.9	443	2	US-09-457-046B-50	Sequence 50, Appl	236	26	63.4	249	2	US-09-902-540-14148	Sequence 14148, A
164	27	65.9	443	2	US-09-666-570B-50	Sequence 50, Appl	237	26	63.4	257	2	US-09-270-767-42589	Sequence 42589, A
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166	27	65.9	500	2	US-09-949-016-11597	Sequence 11597, A	239	26	63.4	264	1	US-09-212-146-1	Sequence 1, Appl
167	27	65.9	531	2	US-09-578-827A-2	Sequence 2, Appl	240	26	63.4	265	2	US-09-248-796A-15631	Sequence 15631, A
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169	27	65.9	583	2	US-09-107-532A-6811	Sequence 6811, Ap	242	26	63.4	270	2	US-09-270-767-47248	Sequence 47248, A
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171	27	65.9	607	2	US-09-352-991A-21640	Sequence 21640, A	244	26	63.4	273	2	US-08-235-836C-98	Sequence 98, Appl
172	27	65.9	678	2	US-09-595-684B-25	Sequence 25, Appl	245	26	63.4	273	2	US-08-235-836C-101	Sequence 101, App
173	27	65.9	706	2	US-09-949-016-11444	Sequence 11444, A	246	26	63.4	274	1	US-08-137-175A-8	Sequence 8, Appl

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249	26	63.4	274	2	US-08-479-017-8	Sequence 8, Appli	322	26	63.4	432	2	US-10-020-445A-90	Sequence 90, Appl
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251	26	63.4	274	2	US-08-235-836C-86	Sequence 86, Appli	324	26	63.4	435	1	US-08-531-439B-1	Sequence 4, Appli
252	26	63.4	274	2	US-08-235-836C-138	Sequence 138, App	325	26	63.4	444	1	US-08-559-260-2	Sequence 2, Appli
253	26	63.4	274	2	US-09-283-646C-2	Sequence 2, Appli	326	26	63.4	447	2	US-08-836-687B-39	Sequence 39, Appli
254	26	63.4	289	2	US-09-071-035-400	Sequence 400, App	327	26	63.4	448	2	US-09-538-092-1362	Sequence 1362, Ap
255	26	63.4	289	2	US-10-206-576-400	Sequence 400, App	328	26	63.4	470	2	US-08-879-565-17	Sequence 1, Appli
256	26	63.4	293	2	US-09-248-796A-15940	Sequence 152, App	329	26	63.4	471	2	US-09-051-961-7	Sequence 7, Appli
257	26	63.4	296	2	US-09-071-035-152	Sequence 152, App	330	26	63.4	471	2	US-09-670-216-31	Sequence 31, Appli
258	26	63.4	296	2	US-10-206-576-152	Sequence 152, App	331	26	63.4	471	2	US-09-538-092-938	Sequence 938, App
259	26	63.4	298	2	US-09-270-767-38427	Sequence 38427, A	332	26	63.4	471	2	US-09-538-092-938	Sequence 938, App
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262	26	63.4	299	1	US-08-479-017-6	Sequence 6, Appli	335	26	63.4	476	2	US-08-945-289-4	Sequence 4, Appli
263	26	63.4	304	2	US-09-248-796A-16060	Sequence 16060, A	336	26	63.4	481	2	US-09-845-511-4	Sequence 4, Appli
264	26	63.4	313	2	US-09-513-151A-68	Sequence 68, Appli	337	26	63.4	481	2	US-09-902-540-11625	Sequence 7030, Ap
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266	26	63.4	316	2	US-09-326-402C-5	Sequence 5, Appli	339	26	63.4	508	2	US-09-489-039A-13426	Sequence 1426, A
267	26	63.4	316	2	US-09-326-402C-15	Sequence 15, Appli	340	26	63.4	508	2	US-09-489-039A-11996	Sequence 11996, A
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269	26	63.4	317	2	US-09-656-450-6	Sequence 6, Appli	342	26	63.4	514	2	US-09-051-961-2	Sequence 2, Appli
270	26	63.4	317	2	US-09-328-352-6885	Sequence 6885, Ap	343	26	63.4	520	2	US-09-670-216-30	Sequence 30, Appli
271	26	63.4	317	2	US-09-489-039A-8503	Sequence 8503, Ap	344	26	63.4	520	2	US-09-538-092-1361	Sequence 1361, Ap
272	26	63.4	317	2	US-08-875-553D-30	Sequence 30, Appli	345	26	63.4	520	2	US-09-949-016-6518	Sequence 6518, Ap
273	26	63.4	318	2	US-09-557-170A-4	Sequence 4, Appli	346	26	63.4	523	1	US-08-473-553A-3	Sequence 3, Appli
274	26	63.4	319	2	US-09-902-540-14144	Sequence 14144, A	347	26	63.4	523	1	US-08-486-049-3	Sequence 3, Appli
275	26	63.4	321	2	US-09-071-035-398	Sequence 398, App	348	26	63.4	530	2	US-08-473-553A-3	Sequence 3, Appli
276	26	63.4	321	2	US-10-206-576-338	Sequence 398, App	349	26	63.4	530	2	US-10-314-739A-3	Sequence 3, Appli
277	26	63.4	321	2	US-09-540-236-2638	Sequence 2638, Ap	350	26	63.4	530	2	US-09-326-480A-3	Sequence 6, Appli
278	26	63.4	324	2	US-09-489-847-203	Sequence 203, App	351	26	63.4	535	2	US-09-603-208A-6	Sequence 17070, A
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281	26	63.4	325	2	US-10-206-576-150	Sequence 150, App	354	26	63.4	557	2	US-09-583-110-4748	Sequence 2, Appli
282	26	63.4	327	2	US-09-252-991A-29837	Sequence 29837, A	355	26	63.4	566	1	US-08-419-078-2	Sequence 2, Appli
283	26	63.4	331	1	US-08-986-217-7	Sequence 7, Appli	356	26	63.4	566	1	US-08-726-883-2	Sequence 3756, Ap
284	26	63.4	332	2	US-09-134-000C-5661	Sequence 5661, Ap	357	26	63.4	573	2	US-09-107-433-336	Sequence 6584, Ap
285	26	63.4	333	2	US-09-949-016-10521	Sequence 10521, A	358	26	63.4	575	2	US-09-543-681A-6584	Sequence 9261, Ap
286	26	63.4	335	2	US-09-002-298-7	Sequence 7, Appli	359	26	63.4	594	2	US-09-902-540-12462	Sequence 12462, A
287	26	63.4	335	2	US-09-481-277-7	Sequence 20, Appli	360	26	63.4	601	2	US-09-902-540-12462	Sequence 4359, Ap
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291	26	63.4	339	1	US-08-431-080-18	Sequence 18, Appli	364	26	63.4	694	2	US-09-270-767-52165	Sequence 261, App
292	26	63.4	339	1	US-08-938-534-18	Sequence 18, Appli	365	26	63.4	749	2	US-09-771-161A-261	Sequence 2554, Ap
293	26	63.4	339	1	US-08-441-857-6	Sequence 6, Appli	366	26	63.4	749	2	US-10-104-047-2554	Sequence 5518, Ap
294	26	63.4	339	1	US-08-193-159-6	Sequence 6, Appli	367	26	63.4	794	2	US-09-134-000C-5518	Sequence 5518, Ap
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296	26	63.4	339	2	US-09-445-294-18	Sequence 18, Appli	369	26	63.4	806	1	US-08-443-861-5	Sequence 5, Appli
297	26	63.4	348	2	US-09-283-646C-6	Sequence 6, Appli	370	26	63.4	806	2	US-08-193-829B-5	Sequence 5, Appli
298	26	63.4	348	2	US-09-113-536-2	Sequence 2, Appli	371	26	63.4	806	2	US-09-766-678-5	Sequence 5, Appli
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303	26	63.4	358	1	US-08-326-402C-16	Sequence 4, Appli	376	26	63.4	826	2	US-09-969-528-4	Sequence 4, Appli
304	26	63.4	359	1	US-08-326-402C-7	Sequence 4, Appli	377	26	63.4	826	2	US-08-506-340A-1	Sequence 2337, Ap
305	26	63.4	359	1	US-08-865-348-4	Sequence 7059, Ap	378	26	63.4	826	2	US-09-538-092-1332	Sequence 6, Appli
306	26	63.4	360	2	US-09-107-532A-7059	Sequence 361, App	379	26	63.4	826	2	US-08-473-553A-2	Sequence 9, Appli
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308	26	63.4	365	2	US-09-328-352-7027	Sequence 6811, Ap	381	26	63.4	826	2	US-08-659-251-5	Sequence 5, Appli
309	26	63.4	365	2	US-09-328-352-6811	Sequence 7, Appli	382	26	63.4	826	2	US-09-107-532A-12498	Sequence 12498, A
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311	26	63.4	373	2	US-09-134-000C-5369	Sequence 307, App	384	26	63.4	826	2	US-09-918-914-1	Sequence 3, Appli
312	26	63.4	376	2	US-09-538-092-307	Sequence 307, App	385	26	63.4	826	2	US-08-996-083-3	Sequence 3, Appli
313	26	63.4	384	1	US-08-220-958-2	Sequence 436, App	386	26	63.4	826	2		
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315	26	63.4	402	2	US-09-328-352-5202	Sequence 12498, A	388	26	63.4	826	2		
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319	26	63.4	422	2	US-09-603-448-3	Sequence 19, Appli	392	26	63.4	826	2		

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394	26	63.4	1184	2	US-09-990-444-124	Sequence 124, App	467	25	61.0	125	2	US-09-621-976-3970	Sequence 3970, Ap
395	26	63.4	1184	2	US-09-997-333-124	Sequence 124, App	468	25	61.0	125	2	US-09-270-767-3463	Sequence 3463, A
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400	26	63.4	1367	1	US-07-946-507-4	Sequence 4, Appli	473	25	61.0	131	2	US-09-367-309A-2	Sequence 2, Appli
401	26	63.4	1367	1	US-08-252-517-6	Sequence 6, Appli	474	25	61.0	131	2	US-10-000-489-64	Sequence 64, Appli
402	26	63.4	1367	1	US-07-906-397A-6	Sequence 6, Appli	475	25	61.0	132	1	US-08-470-2988-12	Sequence 12, Appli
403	26	63.4	1367	1	US-08-601-891-6	Sequence 2, Appli	476	25	61.0	132	1	US-09-270-767-33372	Sequence 33372, A
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410	26	63.4	1367	4	PCT-US92-02750-8	Sequence 6, Appli	483	25	61.0	144	2	US-09-540-236-2312	Sequence 2312, Ap
411	26	63.4	1367	4	PCT-US92-05401-6	Sequence 6, Appli	484	25	61.0	144	2	US-09-270-767-32984	Sequence 32984, A
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413	26	63.4	1433	2	US-09-716-964B-184	Sequence 184, App	486	25	61.0	149	2	US-09-502-540-16304	Sequence 16304, A
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415	26	63.4	1589	2	US-08-755-587-189	Sequence 189, App	488	25	61.0	154	2	US-09-328-352-5245	Sequence 5245, Ap
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419	26	63.4	1728	2	US-10-037-182-12	Sequence 12, Appli	492	25	61.0	157	1	US-09-853-832-15	Sequence 15, Appli
420	26	63.4	1786	2	US-09-562-702A-18	Sequence 18, Appli	493	25	61.0	157	2	US-09-453-976-15	Sequence 15, Appli
421	26	63.4	1786	2	US-09-561-818A-18	Sequence 18, Appli	494	25	61.0	157	2	US-10-300-818-15	Sequence 15, Appli
422	26	63.4	1786	2	US-10-037-182-10	Sequence 10, Appli	495	25	61.0	157	2	US-09-961-453-15	Sequence 15, Appli
423	26	63.4	1833	2	US-08-621-944A-4	Sequence 4, Appli	496	25	61.0	157	2	US-09-961-507-15	Sequence 15, Appli
424	26	63.4	1833	2	US-08-945-567D-4	Sequence 4, Appli	497	25	61.0	157	2	US-09-961-458-15	Sequence 15, Appli
425	26	63.4	1990	2	US-09-902-540-11251	Sequence 11251, A	498	25	61.0	157	2	US-09-961-452A-15	Sequence 15, Appli
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428	26	63.4	2004	2	US-09-538-092-1371	Sequence 1371, Ap	501	25	61.0	162	2	US-09-800-170-6	Sequence 6, Appli
429	26	63.4	2004	2	US-09-949-016-6756	Sequence 6756, Ap	502	25	61.0	163	2	US-09-902-540-15690	Sequence 15690, A
430	26	63.4	2048	2	US-09-268-347-48	Sequence 48, Appli	503	25	61.0	166	2	US-09-134-001C-5373	Sequence 5373, Ap
431	26	63.4	2154	1	US-08-841-349-4	Sequence 4, Appli	504	25	61.0	171	2	US-09-949-016-10097	Sequence 10097, A
432	26	63.4	2154	1	US-09-431-184A-4	Sequence 4, Appli	505	25	61.0	172	2	US-09-270-767-42521	Sequence 42521, A
433	26	63.4	2364	2	US-09-538-092-1243	Sequence 1243, Ap	506	25	61.0	174	1	US-08-328-322-17	Sequence 17, Appli
434	26	63.4	3433	2	US-09-091-501B-10	Sequence 10, Appli	507	25	61.0	177	2	US-08-764-563-3	Sequence 3, Appli
435	26	63.4	3433	2	US-09-538-092-1136	Sequence 1136, Ap	508	25	61.0	177	2	US-09-543-681A-5736	Sequence 5736, Ap
436	26	63.4	4968	2	US-09-424-783-5	Sequence 5, Appli	509	25	61.0	182	2	US-09-107-532A-6454	Sequence 6454, Ap
437	25	61.0	13	2	US-09-759-143-926	Sequence 926, App	510	25	61.0	188	2	US-09-230-196-7	Sequence 7, Appli
438	25	61.0	13	2	US-10-012-896-926	Sequence 926, App	511	25	61.0	191	2	US-09-134-000C-5189	Sequence 5189, Ap
439	25	61.0	50	2	US-08-928-213B-84	Sequence 84, Appli	512	25	61.0	193	2	US-09-543-681A-4479	Sequence 4479, Ap
440	25	61.0	70	2	US-09-583-110-2841	Sequence 2841, Ap	513	25	61.0	194	2	US-09-252-991A-25610	Sequence 25610, A
441	25	61.0	70	2	US-09-107-433-2954	Sequence 2954, Ap	514	25	61.0	195	2	US-08-529-055-71	Sequence 71, Appli
442	25	61.0	71	2	US-09-621-876-6634	Sequence 6634, Ap	515	25	61.0	195	2	US-09-902-540-13776	Sequence 13776, A
443	25	61.0	72	2	US-09-583-110-4899	Sequence 4899, Ap	516	25	61.0	197	2	US-10-000-489-66	Sequence 66, Appli
444	25	61.0	72	2	US-09-107-433-2938	Sequence 2938, Ap	517	25	61.0	197	2	US-09-107-779-2	Sequence 2, Appli
445	25	61.0	74	2	US-09-621-976-4915	Sequence 4915, Ap	518	25	61.0	198	2	US-09-134-000C-5033	Sequence 5033, Ap
446	25	61.0	81	2	US-09-270-767-39355	Sequence 39355, A	519	25	61.0	199	2	US-09-107-779-24	Sequence 24, Appli
447	25	61.0	81	2	US-09-270-767-54572	Sequence 54572, A	520	25	61.0	201	2	US-09-716-964B-90	Sequence 90, Appli
448	25	61.0	86	2	US-09-563-997A-47	Sequence 47, Appli	521	25	61.0	202	2	US-09-134-000C-3660	Sequence 3660, Ap
449	25	61.0	89	2	US-08-793-273C-5	Sequence 5, Appli	522	25	61.0	209	2	US-09-583-110-2830	Sequence 2830, Ap
450	25	61.0	89	4	PCT-US95-11684-5	Sequence 5, Appli	523	25	61.0	211	2	US-09-107-433-2782	Sequence 2782, Ap
451	25	61.0	90	2	US-09-188-930-134	Sequence 134, App	524	25	61.0	220	2	US-09-270-767-37754	Sequence 37754, A
452	25	61.0	90	2	US-09-312-283C-134	Sequence 134, App	525	25	61.0	220	2	US-09-270-767-52971	Sequence 52971, A
453	25	61.0	90	2	US-09-621-976-4355	Sequence 4355, App	526	25	61.0	222	1	US-08-129-610-8	Sequence 8, Appli
454	25	61.0	99	1	US-08-710-749-12	Sequence 12, Appli	527	25	61.0	222	1	US-08-455-313-8	Sequence 8, Appli
455	25	61.0	99	1	US-09-047-125-21	Sequence 21, Appli	528	25	61.0	222	1	US-08-475-924-3	Sequence 3, Appli
456	25	61.0	99	2	US-07-736-335B-21	Sequence 13, Appli	529	25	61.0	222	1	US-08-657-579A-3	Sequence 3, Appli
457	25	61.0	99	2	US-09-147-875A-13	Sequence 4742, Ap	530	25	61.0	222	2	US-09-224-025-8	Sequence 8, Appli
458	25	61.0	99	2	US-09-583-110-4742	Sequence 704, App	531	25	61.0	222	2	US-08-311-731A-160	Sequence 160, App
459	25	61.0	104	2	US-09-732-210-704	Sequence 4799, App	532	25	61.0	222	4	PCT-US94-07887-8	Sequence 8, Appli
460	25	61.0	110	2	US-09-513-899C-8138	Sequence 8138, App	533	25	61.0	222	4	US-09-902-540-10947	Sequence 10947, A
461	25	61.0	113	2	US-09-107-532A-6466	Sequence 6466, Ap	534	25	61.0	233	2	US-09-270-767-45995	Sequence 45995, A
462	25	61.0	115	2	US-09-732-210-1360	Sequence 1360, Ap	535	25	61.0	233	2	US-09-543-681A-7389	Sequence 7389, Ap
463	25	61.0	118	2	US-09-107-532A-6878	Sequence 6878, Ap	537	25	61.0	235	2	US-09-902-540-11067	Sequence 11067, A
464	25	61.0	120	2	US-09-107-433-2947	Sequence 2947, Ap	538	25	61.0	236	2		

539	25	61.0	243	2	US-09-134-000C-6184	Sequence 6184, Ap	612	25	61.0	355	2	US-09-248-796A-20592	Sequence 20592, A
540	25	61.0	243	2	US-09-248-796A-23192	Sequence 23192, A	613	25	61.0	367	2	US-10-094-944-21	Sequence 21, Appl
541	25	61.0	246	2	US-09-452-239-20	Sequence 20, Appl	614	25	61.0	368	2	US-09-248-796A-19000	Sequence 19000, A
542	25	61.0	246	2	US-09-452-239-22	Sequence 22, Appl	615	25	61.0	368	2	US-10-061-644-8	Sequence 8, Appl
543	25	61.0	247	2	US-09-523-681A-5194	Sequence 5194, Ap	616	25	61.0	368	4	PCT-US93-11703-24	Sequence 24, Appl
544	25	61.0	248	2	US-09-523-263B-15	Sequence 15, Appl	617	25	61.0	369	1	US-08-139-609-1	Sequence 1, Appl
545	25	61.0	248	2	US-10-012-143-2	Sequence 2, Appl	618	25	61.0	375	1	US-08-121-714-2	Sequence 2, Appl
546	25	61.0	248	2	US-10-012-143-5	Sequence 5, Appl	619	25	61.0	375	1	US-08-477-108A-2	Sequence 2, Appl
547	25	61.0	248	2	US-10-299-867-15	Sequence 15, Appl	620	25	61.0	375	1	US-08-477-112-2	Sequence 2, Appl
548	25	61.0	249	1	US-08-685-992-28	Sequence 28, Appl	621	25	61.0	375	2	US-09-328-352-8119	Sequence 8119, Ap
549	25	61.0	249	1	US-09-144-925-28	Sequence 28, Appl	622	25	61.0	375	2	US-09-886-319A-4	Sequence 4, Appl
550	25	61.0	252	4	PCT-US96-01314-56	Sequence 56, Appl	623	25	61.0	377	4	PCT-US93-08322-2	Sequence 31, Appl
551	25	61.0	254	2	US-09-586-106D-141	Sequence 141, App	624	25	61.0	377	1	US-08-839-681A-31	Sequence 31, Appl
552	25	61.0	254	2	US-09-586-106D-149	Sequence 149, App	625	25	61.0	378	2	US-09-023-591A-31	Sequence 62, Appl
553	25	61.0	254	2	US-10-799-870-141	Sequence 141, App	626	25	61.0	380	2	US-09-689-486-62	Sequence 44518, A
554	25	61.0	254	2	US-10-799-870-149	Sequence 149, App	627	25	61.0	380	2	US-09-270-767-44518	Sequence 44518, A
555	25	61.0	256	2	US-09-270-767-45809	Sequence 45809, A	628	25	61.0	383	6	5470718-5	Patent No. 5470718
556	25	61.0	265	1	US-07-958-551-2	Sequence 2, Appl	629	25	61.0	385	2	US-09-270-767-45184	Sequence 45184, A
557	25	61.0	265	1	US-08-129-610-7	Sequence 7, Appl	630	25	61.0	386	2	US-09-328-352-7679	Sequence 7679, Ap
558	25	61.0	265	1	US-08-129-609A-7	Sequence 7, Appl	631	25	61.0	388	1	US-08-499-568-11	Sequence 11, Appl
559	25	61.0	265	1	US-08-455-313-7	Sequence 7, Appl	632	25	61.0	388	1	US-08-793-958-11	Sequence 11, Appl
560	25	61.0	265	1	US-08-475-924-2	Sequence 2, Appl	633	25	61.0	388	1	US-08-793-958-11	Sequence 6381, Ap
561	25	61.0	265	1	US-08-657-579A-2	Sequence 2, Appl	634	25	61.0	390	2	US-09-328-352-6381	Sequence 4913, Ap
562	25	61.0	265	1	US-09-224-025-7	Sequence 7, Appl	635	25	61.0	390	2	US-09-328-352-6913	Sequence 18221, A
563	25	61.0	265	4	PCT-US94-07887-7	Sequence 7, Appl	636	25	61.0	391	2	US-08-220-151-23	Sequence 23, Appl
564	25	61.0	265	4	US-09-706-541-7	Sequence 7, Appl	637	25	61.0	393	1	US-08-499-568-15	Sequence 15, Appl
565	25	61.0	276	2	US-09-949-002-375	Sequence 375, App	638	25	61.0	393	1	US-08-413-118-23	Sequence 23, Appl
566	25	61.0	276	2	US-09-328-352-5738	Sequence 5738, Ap	639	25	61.0	393	1	US-08-793-958-15	Sequence 15, Appl
567	25	61.0	285	2	US-09-141-821-2	Sequence 2, Appl	640	25	61.0	393	1	US-08-956-998-2	Sequence 23, Appl
568	25	61.0	285	2	US-09-248-796A-17901	Sequence 17901, A	641	25	61.0	393	2	US-08-473-446-23	Sequence 23, Appl
569	25	61.0	287	2	US-09-583-110-4959	Sequence 4959, Ap	642	25	61.0	393	6	5182195-10	Patent No. 5182195
570	25	61.0	287	2	US-09-583-110-4966	Sequence 4966, Ap	643	25	61.0	394	1	US-08-357-264-3	Sequence 3, Appl
571	25	61.0	287	2	US-09-583-110-4979	Sequence 4979, Ap	644	25	61.0	394	1	US-08-499-568-4	Sequence 4, Appl
572	25	61.0	298	2	US-09-949-016-8191	Sequence 8191, Ap	645	25	61.0	394	1	US-08-672-514-3	Sequence 4, Appl
573	25	61.0	304	2	US-09-710-279-650	Sequence 650, App	646	25	61.0	394	1	US-08-793-958-4	Sequence 14134, A
574	25	61.0	304	2	US-09-710-279-1716	Sequence 1716, Ap	647	25	61.0	395	1	US-09-248-796A-14134	Sequence 16, Appl
575	25	61.0	305	2	US-09-248-796A-15651	Sequence 15651, A	648	25	61.0	396	2	US-08-878-989-16	Sequence 2, Appl
576	25	61.0	307	2	US-09-107-433-4181	Sequence 4181, Ap	649	25	61.0	396	2	US-09-344-700-2	Sequence 2, Appl
577	25	61.0	307	2	US-09-107-433-4337	Sequence 4337, Ap	650	25	61.0	396	2	US-09-563-997A-2	Sequence 7964, Ap
578	25	61.0	308	1	US-08-499-568-2	Sequence 2, Appl	651	25	61.0	396	2	US-09-188-930-302	Sequence 302, App
579	25	61.0	308	1	US-08-793-958-2	Sequence 2, Appl	652	25	61.0	398	2	US-09-312-283C-302	Sequence 13, Appl
580	25	61.0	308	2	US-09-107-532A-5653	Sequence 5653, Ap	653	25	61.0	411	2	US-09-430-221-13	Sequence 114, App
581	25	61.0	308	2	US-09-949-016-11023	Sequence 11023, A	654	25	61.0	411	2	US-09-724-623-114	Sequence 4405, Ap
582	25	61.0	309	2	US-09-134-000C-6506	Sequence 6506, Ap	655	25	61.0	412	2	US-09-543-681A-4405	Sequence 257, App
583	25	61.0	309	2	US-09-248-796A-22368	Sequence 22368, A	656	25	61.0	412	2	US-09-771-161A-258	Sequence 258, App
584	25	61.0	309	2	US-09-538-092-405	Sequence 405, App	657	25	61.0	424	2	US-09-771-161A-258	Sequence 259, App
585	25	61.0	311	2	US-09-134-001C-3846	Sequence 3846, Ap	658	25	61.0	424	2	US-09-608-285A-3	Sequence 5, Appl
586	25	61.0	311	2	US-09-583-110-3611	Sequence 3611, Ap	659	25	61.0	424	2	US-09-608-285A-5	Sequence 7, Appl
587	25	61.0	313	2	US-09-902-540-9934	Sequence 9934, Ap	660	25	61.0	424	2	US-09-608-285A-7	Sequence 9, Appl
588	25	61.0	313	2	US-09-769-787-73	Sequence 73, Appl	661	25	61.0	428	2	US-09-350-836B-3	Sequence 3, Appl
589	25	61.0	314	2	US-09-543-681A-5739	Sequence 5739, Ap	662	25	61.0	428	2	US-09-350-836B-5	Sequence 5, Appl
590	25	61.0	315	2	US-09-252-991A-19140	Sequence 19140, A	663	25	61.0	428	2	US-09-240-639-6	Sequence 6, Appl
591	25	61.0	316	2	US-09-462-846-5	Sequence 5, Appl	664	25	61.0	428	2	US-09-240-639-9	Sequence 9, Appl
592	25	61.0	317	2	US-09-680-728-2	Sequence 2, Appl	665	25	61.0	428	2	US-09-350-836B-3	Sequence 3, Appl
593	25	61.0	317	2	US-10-017-066A-2	Sequence 2, Appl	666	25	61.0	428	2	US-09-350-836B-5	Sequence 5, Appl
594	25	61.0	318	2	US-09-759-143-920	Sequence 920, App	667	25	61.0	428	2	US-09-350-836B-7	Sequence 7, Appl
595	25	61.0	318	2	US-10-012-896-920	Sequence 920, App	668	25	61.0	428	2	US-09-370-265-3	Sequence 3, Appl
596	25	61.0	319	2	US-09-107-532A-4723	Sequence 4723, Ap	669	25	61.0	428	2	US-09-370-265-5	Sequence 5, Appl
597	25	61.0	319	2	US-09-413-231-8	Sequence 8, Appl	670	25	61.0	428	2	US-09-370-265-7	Sequence 7, Appl
598	25	61.0	321	2	US-09-452-991A-21835	Sequence 21835, A	671	25	61.0	428	2	US-09-557-800C-3	Sequence 3, Appl
599	25	61.0	321	2	US-09-498-520A-10	Sequence 10, Appl	672	25	61.0	428	2	US-09-557-800C-5	Sequence 5, Appl
600	25	61.0	332	2	US-09-134-000C-4988	Sequence 4988, Ap	673	25	61.0	428	2	US-09-557-800C-7	Sequence 7, Appl
601	25	61.0	332	2	US-09-134-000C-4988	Sequence 502, App	674	25	61.0	428	2	US-09-370-625A-5	Sequence 3, Appl
602	25	61.0	333	2	US-09-527-522-1	Sequence 1, Appl	675	25	61.0	428	2	US-09-370-625A-7	Sequence 7, Appl
603	25	61.0	339	2	US-10-067-291-1	Sequence 1, Appl	676	25	61.0	428	2	US-09-370-625A-5	Sequence 5, Appl
604	25	61.0	339	2	US-09-107-532A-7272	Sequence 7272, Ap	677	25	61.0	428	2	US-09-908-510A-6	Sequence 6, Appl
605	25	61.0	342	2	US-09-818-780-98	Sequence 98, Appl	678	25	61.0	428	2	US-09-908-510A-9	Sequence 9, Appl
606	25	61.0	342	2	US-09-134-000C-3690	Sequence 3690, Ap	679	25	61.0	428	2	US-09-908-510A-6	Sequence 6, Appl
607	25	61.0	349	2	US-09-107-532A-6233	Sequence 6233, Ap	680	25	61.0	428	2	US-09-905-744B-9	Sequence 9, Appl
608	25	61.0	352	2	US-09-248-796A-15209	Sequence 15209, A	681	25	61.0	428	2	US-10-107-660-6	Sequence 6, Appl
609	25	61.0	354	2	US-09-134-000C-5843	Sequence 5843, Ap	682	25	61.0	428	2	US-10-107-660-9	Sequence 9, Appl
610	25	61.0	354	2	US-09-835-811-4	Sequence 4, Appl	683	25	61.0	428	2	US-10-107-660-9	Sequence 6, Appl
611	25	61.0	354	2	US-09-270-767-44509	Sequence 44509, A	684	25	61.0	428	2	US-10-107-576-6	Sequence 6, Appl

685	25	61.0	428	2	US-10-107-576-9	Sequence 9, Appl1	758	25	61.0	534	2	US-09-613-486-44	Sequence 44, Appl1
686	25	61.0	428	2	US-09-905-732B-6	Sequence 6, Appl1	759	25	61.0	551	2	US-08-796-899-29	Sequence 29, Appl1
687	25	61.0	428	2	US-09-905-732B-9	Sequence 9, Appl1	760	25	61.0	555	2	US-08-687-590-24	Sequence 24, Appl1
688	25	61.0	428	2	US-09-949-016-6050	Sequence 6050, Ap	761	25	61.0	560	2	US-09-949-016-10786	Sequence 10786, A
689	25	61.0	428	2	US-09-905-743B-6	Sequence 6, Appl1	762	25	61.0	563	2	US-09-949-016-10046	Sequence 10046, A
690	25	61.0	428	2	US-09-905-743B-9	Sequence 9, Appl1	763	25	61.0	563	2	US-09-949-016-10047	Sequence 10047, A
691	25	61.0	428	2	US-10-091-085-3	Sequence 3, Appl1	764	25	61.0	580	2	US-09-328-352-7656	Sequence 7656, Ap
692	25	61.0	428	2	US-10-091-085-5	Sequence 5, Appl1	765	25	61.0	583	1	US-08-448-196A-6	Sequence 6, Appl1
693	25	61.0	428	2	US-10-091-085-7	Sequence 7, Appl1	766	25	61.0	584	2	US-09-543-681A-8150	Sequence 8150, Ap
694	25	61.0	428	2	US-09-905-589-6	Sequence 6, Appl1	767	25	61.0	584	2	US-09-452-796A-254	Sequence 254, App
695	25	61.0	428	2	US-09-905-589-9	Sequence 9, Appl1	768	25	61.0	609	2	US-09-248-796A-14404	Sequence 14404, A
696	25	61.0	428	2	US-10-108-171A-6	Sequence 6, Appl1	769	25	61.0	621	2	US-09-543-681A-6294	Sequence 6294, Ap
697	25	61.0	428	2	US-10-108-171A-9	Sequence 9, Appl1	770	25	61.0	622	2	US-09-902-540-16096	Sequence 16096, A
698	25	61.0	433	2	US-09-807-258-32	Sequence 32, Appl	771	25	61.0	630	2	US-09-248-796A-19619	Sequence 19619, A
699	25	61.0	434	2	US-09-328-352-4461	Sequence 4461, Ap	772	25	61.0	631	2	US-09-134-000C-6175	Sequence 6175, Ap
700	25	61.0	435	2	US-09-252-991A-28507	Sequence 28507, A	773	25	61.0	632	2	US-09-016-080-1	Sequence 1, Appl1
701	25	61.0	443	2	US-09-902-540-16336	Sequence 16336, A	774	25	61.0	635	2	US-09-248-796A-19449	Sequence 19449, A
702	25	61.0	447	2	US-09-710-279-2900	Sequence 2900, Ap	775	25	61.0	660	2	US-09-907-794A-28	Sequence 28, Appl1
703	25	61.0	449	2	US-08-987-743-7	Sequence 7, Appl1	776	25	61.0	660	2	US-09-905-125A-28	Sequence 28, Appl1
704	25	61.0	449	2	US-09-252-991A-27335	Sequence 27325, A	777	25	61.0	660	2	US-09-902-775A-28	Sequence 28, Appl1
705	25	61.0	450	2	US-09-710-279-3226	Sequence 3226, Ap	778	25	61.0	660	2	US-09-906-700-28	Sequence 28, Appl1
706	25	61.0	456	2	US-09-252-991A-30171	Sequence 30171, A	779	25	61.0	660	2	US-09-903-603A-28	Sequence 28, Appl1
707	25	61.0	456	2	US-09-949-016-7564	Sequence 7564, Ap	780	25	61.0	660	2	US-09-904-920A-28	Sequence 28, Appl1
708	25	61.0	463	1	US-07-951-715A-25	Sequence 25, Appl1	781	25	61.0	660	2	US-09-949-016-6843	Sequence 6843, Ap
709	25	61.0	463	1	US-08-459-448A-25	Sequence 25, Appl1	782	25	61.0	660	2	US-09-909-064-28	Sequence 28, Appl1
710	25	61.0	463	2	US-08-459-595A-25	Sequence 25, Appl1	783	25	61.0	660	2	US-09-905-381A-28	Sequence 28, Appl1
711	25	61.0	463	2	US-08-459-504B-25	Sequence 25, Appl1	784	25	61.0	660	2	US-09-906-618-28	Sequence 28, Appl1
712	25	61.0	463	2	US-08-459-444-25	Sequence 0, Appl1	785	25	61.0	660	2	US-09-906-646-28	Sequence 28, Appl1
713	25	61.0	463	2	US-09-547-422-25	Sequence 0, Appl1	786	25	61.0	660	2	US-09-689-486-58	Sequence 28, Appl1
714	25	61.0	463	2	US-09-988-462-25	Sequence 25, Appl1	787	25	61.0	660	2	US-09-904-462-28	Sequence 28, Appl1
715	25	61.0	463	2	US-09-538-092-162	Sequence 162, Appl	788	25	61.0	660	2	US-09-902-736A-28	Sequence 28, Appl1
716	25	61.0	464	2	US-08-580-031A-14	Sequence 14, Appl	789	25	61.0	660	2	US-09-906-722A-28	Sequence 28, Appl1
717	25	61.0	464	6	5463025-1	Patent No. 5463025	790	25	61.0	664	2	US-09-252-991A-31745	Sequence 31745, A
718	25	61.0	465	2	US-08-701-582D-13	Sequence 13, Appl1	791	25	61.0	672	2	US-09-363-708-2	Sequence 2, Appl1
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720	25	61.0	465	2	US-09-096-776B-6	Sequence 6, Appl1	793	25	61.0	677	2	US-09-328-352-7826	Sequence 7826, Ap
721	25	61.0	465	2	US-09-240-639-8	Sequence 8, Appl1	794	25	61.0	683	2	US-09-949-016-7267	Sequence 7267, Ap
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737	25	61.0	480	2	US-09-248-796A-15701	Sequence 15701, A	810	25	61.0	861	2	US-10-229-124-2	Sequence 2, Appl1
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739	25	61.0	483	2	US-09-902-540-10828	Sequence 10828, A	812	25	61.0	880	2	US-09-538-092-601	Sequence 601, App
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743	25	61.0	492	2	US-09-321-969-9	Sequence 9, Appl1	816	25	61.0	980	2	US-10-363-937-7	Sequence 7, Appl1
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756	25	61.0	533	1	US-08-458-181-10	Sequence 10, Appl1	829	25	61.0	1432	2	US-08-781-891-71	Sequence 71, Appl1
757	25	61.0	533	4	PCT-US93-02172-10	Sequence 10, Appl1	830	25	61.0	1432	2	US-09-618-166-71	Sequence 71, Appl1



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837	25	61.0	1551	2	US-09-425-665-2	Sequence 2, Appl	910	24	58.5	106	2	US-09-345-773-74	Sequence 74, Appl
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839	25	61.0	1651	2	US-09-540-245A-18	Sequence 18, Appl	912	24	58.5	109	1	US-08-469-617-26	Sequence 26, Appl
840	25	61.0	1651	2	US-10-289-776-18	Sequence 294, App	913	24	58.5	109	2	US-08-469-630-26	Sequence 26, Appl
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843	25	61.0	1837	2	US-09-438-185A-98	Sequence 485, App	916	24	58.5	110	2	US-09-462-917A-38	Sequence 38, Appl
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852	25	61.0	2165	2	US-09-368-076-29	Sequence 29, Appl	925	24	58.5	117	2	US-09-345-373-72	Sequence 72, Appl
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984 24 58.5 141 2 US-09-610-651-136 Sequence 136, Appl  
985 24 58.5 141 2 US-09-610-651-146 Sequence 146, Appl  
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## ALIGNMENTS

RESULT 1  
US-08-159-339A-1174  
; Sequence 1174, Application US/08159339A  
; Patent No. 6037135  
; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Celis, Esben  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; NUMBER OF SEQUENCES: 1254  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
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; CITY: San Francisco  
; STATE: CA  
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; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,339A  
; FILING DATE: 29-NOV-1993  
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; TELEPHONE: (415) 576-0200  
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; TELEX:  
; INFORMATION FOR SEQ ID NO: 1174:

SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-159-339A-1174

Query Match 100.0%; Score 41; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.049;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KTVLELTV 9  
Db 1 KTVLELTV 9

## RESULT 2

US-08-247-904B-10  
; Sequence 10, Application US/08247904B  
; Patent No. 5981699  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Eckstein, Giulio  
; APPLICANT: Diaceta, Jena W.  
; TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Foley, Hoag & Eliot  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: ASCII(text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/247,904B  
; FILING DATE: 23-MAY-1994  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.  
; REGISTRATION NUMBER: 36,709  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 832-1000  
; TELEFAX: (617) 832-7000  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 158 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 41; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.61;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 KTVLELTV 9  
Db 36 KTVLELTV 44

## RESULT 3

US-08-767-942A-19  
; Sequence 19, Application US/08767942A  
; Patent No. 6068982  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark

APPLICANT: Chin, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HONG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 41; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.61;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 36 KTVLELTV 44

RESULT 4  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bourneil, Michael E.  
APPLICANT: Ingile, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
TITLE OF INVENTION: Papilloma Virus Proteins  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION:  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 41; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 37 KTVLELTV 45

RESULT 5  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Benchelkh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 41; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 147 KTVLELTV 155

RESULT 6  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485, 885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP96/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FaestSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 41; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVELTEV 9  
Db 147 KTVELTEV 155

RESULT 7  
US-09-107-532A-5220  
Sequence 5220, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107, 532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085, 598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneke  
REGISTRATION NUMBER: 40, 469  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 5220:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 270 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium

FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...270  
SEQUENCE DESCRIPTION: SEQ ID NO: 5220:  
US-09-107-532A-5220

Query Match 85.4%; Score 35; DB 2; Length 270;  
Best Local Similarity 87.5%; Pred. No. 18;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVELTE 8  
Db 190 KTVELTE 197

RESULT 8  
US-09-621-976-5771  
Sequence 5771, Application US/09621976  
Patent No. 6639063  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, J.B.  
APPLICANT: Jobert, S.  
APPLICANT: Giordano, J.Y.  
TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
FILE REFERENCE: GENSET.054PR2  
CURRENT APPLICATION NUMBER: US/09/621, 976  
CURRENT FILING DATE: 2000-07-21  
NUMBER OF SEQ ID NOS: 19335  
SOFTWARE: Patent.pm  
SEQ ID NO 5771  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: -21...-1  
US-09-621-976-5771

Query Match 80.5%; Score 33; DB 2; Length 77;  
Best Local Similarity 87.5%; Pred. No. 12;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TVELETV 9  
Db 33 TVELETV 40

RESULT 9  
US-08-605-163-22  
Sequence 22, Application US/08605163  
Patent No. 5879886  
GENERAL INFORMATION:  
APPLICANT: Meo, Tommaso  
APPLICANT: Tosi, Mario  
APPLICANT: Verdoy, Elisabeth  
APPLICANT: Bisotto, Michel  
TITLE OF INVENTION: Method for Detecting Molecules  
TITLE OF INVENTION: Containing Nucleotide Mismatches and the Location of These  
TITLE OF INVENTION: Mismatches, and Application to the Detection of Base  
TITLE OF INVENTION: Substitutions or Deletions in Nucleotide Sequences.  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Parabow, Garrett &  
ADDRESSEE: Dunner  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/605.163  
FILING DATE: 08-MAR-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Meyers, Kenneth J.  
REGISTRATION NUMBER: 25,146  
REFERENCE/DOCKET NUMBER: 05986.0005-00000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
FILING DATE: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 84 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 57  
OTHER INFORMATION: /note= "Xaa = Val or Met"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 58  
OTHER INFORMATION: /note= "Xaa = Gln or Glu"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 61  
OTHER INFORMATION: /note= "Xaa = Phe or Ser"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 64  
OTHER INFORMATION: /note= "Xaa = Val or Met"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 65  
OTHER INFORMATION: /note= "Xaa = Leu or Pro or Arg"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 73  
OTHER INFORMATION: /note= "Xaa = Pro or Arg"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 78  
OTHER INFORMATION: /note= "Xaa = Arg or Stop"  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 82  
OTHER INFORMATION: /note= "Xaa = Pro or Ser"  
US-08-605-163-22  
Query Match 80.5%; Score 33; DB 1; Length 84;  
Best Local Similarity 87.5%; Pred. No. 13;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 KTVLELTE 8  
Db 28 QTVLELTE 35  
RESULT 10  
US-07-755-573C-8  
Sequence 8, Application US/07755573C  
Patent No. 5622930  
GENERAL INFORMATION:  
APPLICANT: Eldering, Eric  
TITLE OF INVENTION: C1 Esterase Inhibitor Mutelins  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Garstein, Murray & Borun

STREET: 6300 Sears Tower, 233 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/755,573C  
FILING DATE: 05-SEP-1991  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Pochopien, Donald J.  
REGISTRATION NUMBER: 32,167  
REFERENCE/DOCKET NUMBER: 28687/32920  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312/474-6300  
FILING DATE: 312/474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 500 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-755-573C-8

Query Match 80.5%; Score 33; DB 1; Length 500;  
Best Local Similarity 87.5%; Pred. No. 91;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 11  
US-09-519-878-2  
Sequence 2, Application US/09519878  
Patent No. 6500929  
GENERAL INFORMATION:  
APPLICANT: MIYAGAWA, Shuji  
TITLE OF INVENTION: MEMBRANE-BOUND C1 INHIBITOR  
FILE REFERENCE: 10797-0001-0  
CURRENT FILING DATE: 2000-03-06  
CURRENT APPLICATION NUMBER: US/09/519,878  
PRIOR FILING DATE: 1999-07-21  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2  
LENGTH: 500  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-519-878-2

Query Match 80.5%; Score 33; DB 2; Length 500;  
Best Local Similarity 87.5%; Pred. No. 91;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 12  
US-09-519-878-4  
Sequence 4, Application US/09519878  
Patent No. 6500929  
GENERAL INFORMATION:

APPLICANT: MIYAGAWA, Shuji  
TITLE OF INVENTION: MEMBRANE-BOUND C1 INHIBITOR  
FILE REFERENCE: 10797-0001-0  
CURRENT APPLICATION NUMBER: US/09/519, 878  
CURRENT FILING DATE: 2000-03-06  
PRIOR APPLICATION NUMBER: JP 11-206535  
PRIOR FILING DATE: 1999-07-21  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 4  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Mus musculus  
US-09-519-878-4

Query Match 80.5%; Score 33; DB 2; Length 504;  
Best Local Similarity 87.5%; Pred. No. 91;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 448 ETVLELTE 455

RESULT 13  
US-09-949-016-10586  
Sequence 10586, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: C1001307  
CURRENT APPLICATION NUMBER: US/09/949, 016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10586  
LENGTH: 520  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-10586

Query Match 80.5%; Score 33; DB 2; Length 520;  
Best Local Similarity 87.5%; Pred. No. 94;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 464 QTVLELTE 471

RESULT 14  
US-09-902-540-11825  
Sequence 11825, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(115849)B  
CURRENT APPLICATION NUMBER: US/09/902, 540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217, 883  
PRIOR FILING DATE: 2000-07-10

NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 11825  
LENGTH: 386  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-11825

Query Match 75.6%; Score 31; DB 2; Length 386;  
Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 56 KTVLELTE 63

RESULT 15  
US-09-902-540-16694  
Sequence 16694, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(115849)B  
CURRENT APPLICATION NUMBER: US/09/902, 540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217, 883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 16694  
LENGTH: 489  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-16694

Query Match 75.6%; Score 31; DB 2; Length 489;  
Best Local Similarity 62.5%; Pred. No. 2.3e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 TVLELTEV 9  
Db 71 TTVLELTE 78

RESULT 16  
US-08-881-784-1  
Sequence 1, Application US/08881784  
Patent No. 6083731  
GENERAL INFORMATION:  
APPLICANT: Croteau, Rodney B.  
APPLICANT: Lupien, Shari L.  
APPLICANT: Karp, Frank  
TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR  
THE PRODUCTION OF LIMONENE HYDROXYLASES  
NUMBER OF SEQUENCES: 58  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Christensen, O'Connor, Johnson and Kindness  
ADDRESSEE: PULC  
STREET: 1420 Fifth Avenue, Suite 2800  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/881, 784

```
;
;
; PILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Shelton, Dennis K.
; REGISTRATION NUMBER: 26,997
; REFERENCE/DOCKET NUMBER: WSRU19777
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 224-0718
; TELEFAX: (206) 224-0779
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 496 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Mentha spicata
; IMMEDIATE SOURCE:
; CLONE: SM12.2
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; FEATURE:
; NAME/KEY: Cleavage-site
; LOCATION: 7..27
; OTHER INFORMATION: /note= "V-8.2 proteolytic fragment"
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; FEATURE:
; NAME/KEY: Active-site
; LOCATION: 7..48
; OTHER INFORMATION: /note= "Membrane insertion"
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; FEATURE:
; NAME/KEY: Active-site
; LOCATION: 44..48
; OTHER INFORMATION: /note= "Halt-transfer signal"
;
; FEATURE:
; NAME/KEY: Cleavage-site
; LOCATION: 182..206
; OTHER INFORMATION: /note= "V-8.1 proteolytic fragment"
;
; FEATURE:
; NAME/KEY: Cleavage-site
; LOCATION: 380..404
; OTHER INFORMATION: /note= "V-8.3 proteolytic fragment"
;
; FEATURE:
; NAME/KEY: Binding-site
; LOCATION: 429..454
; OTHER INFORMATION: /note= "Heme binding region"
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; US-08-881-784-1
;
; Query Match 75.6%; Score 31; DB 2; Length 496;
; Best Local Similarity 66.7%; Pred. No. 2.3e+02;
; Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 KTVLELTV 9
; DB 335 KTVVDLSEV 343
;
; RESULT 17
; US-09-292-768-2
; Sequence 2, Application US/09292768
; Patent No. 6194185
; GENERAL INFORMATION:
; APPLICANT: Croteau, Rodney B
; APPLICANT: Lupien, Shari L
; APPLICANT: Kaip, Frank
; TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR THE PRODUCTION OF
; FILE REFERENCE: wsur13463
; CURRENT APPLICATION NUMBER: US/09/292,768
; CURRENT FILING DATE: 1999-04-14
; EARLIER APPLICATION NUMBER: 08/881,784
; EARLIER FILING DATE: 1997-06-24
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn Ver. 2.0
;
; US-09-292-768-2
```

```
;
;
; SEQ ID NO 2
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Mentha spicata
;
; US-09-292-768-2
;
; Query Match 75.6%; Score 31; DB 2; Length 496;
; Best Local Similarity 66.7%; Pred. No. 2.3e+02;
; Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 KTVLELTV 9
; DB 335 KTVVDLSEV 343
;
; RESULT 18
; US-09-292-768-64
; Sequence 64, Application US/09292768
; Patent No. 6194185
; GENERAL INFORMATION:
; APPLICANT: Croteau, Rodney B
; APPLICANT: Lupien, Shari L
; APPLICANT: Kaip, Frank
; TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR THE PRODUCTION OF
; FILE REFERENCE: wsur13463
; CURRENT APPLICATION NUMBER: US/09/292,768
; CURRENT FILING DATE: 1999-04-14
; EARLIER APPLICATION NUMBER: 08/881,784
; EARLIER FILING DATE: 1997-06-24
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 64
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Artificial Sequence
;
; US-09-292-768-64
;
; Query Match 75.6%; Score 31; DB 2; Length 496;
; Best Local Similarity 66.7%; Pred. No. 2.3e+02;
; Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 KTVLELTV 9
; DB 335 KTVVDLSEV 343
;
; RESULT 19
; US-09-292-768-66
; Sequence 66, Application US/09292768
; Patent No. 6194185
; GENERAL INFORMATION:
; APPLICANT: Croteau, Rodney B
; APPLICANT: Lupien, Shari L
; APPLICANT: Kaip, Frank
; TITLE OF INVENTION: RECOMBINANT MATERIALS AND METHODS FOR THE PRODUCTION OF
; FILE REFERENCE: wsur13463
; CURRENT APPLICATION NUMBER: US/09/292,768
; CURRENT FILING DATE: 1999-04-14
; EARLIER APPLICATION NUMBER: 08/881,784
; EARLIER FILING DATE: 1997-06-24
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Artificial Sequence
;
; US-09-292-768-66
;
; Query Match 75.6%; Score 31; DB 2; Length 496;
; Best Local Similarity 66.7%; Pred. No. 2.3e+02;
; Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 KTVLELTV 9  
|||:|:|  
Db 335 KTVVDLSEV 343

## RESULT 20

US-09-172-339-6  
; Sequence 6, Application US/09172339  
; Patent No. 6291745  
; GENERAL INFORMATION:  
; APPLICANT: Eucilaie Meyer, Terry  
; APPLICANT: Yalpaui, Nasser  
; TITLE OF INVENTION: Limonene and Other Downstream  
; TITLE OF INVENTION: Metabolites of Geranyl Pyrophosphate for Insect Control in  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 5718-65  
; CURRENT APPLICATION NUMBER: US/09/172,339  
; CURRENT FILING DATE: 1998-10-14  
; EARLIER APPLICATION NUMBER: 08/449,061  
; EARLIER FILING DATE: 1995-05-24  
; EARLIER APPLICATION NUMBER: 08/153,544  
; EARLIER FILING DATE: 1993-11-16  
; EARLIER APPLICATION NUMBER: 08/042,199  
; EARLIER FILING DATE: 1993-04-02  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 6  
; LENGTH: 496  
; TYPE: PRT  
; ORGANISM: Mentha spicata  
US-09-172-339-6

Query Match 75.6%; Score 31; DB 2; Length 496;  
Best Local Similarity 66.7%; Pred. No. 2.3e+02;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
|||:|:|  
Db 335 KTVVDLSEV 343

## RESULT 21

US-09-107-532A-5733  
; Sequence 5733, Application US/09107532A  
; Patent No. 6583275  
; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 7310  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
; STREET: 100 Beaver Street  
; CITY: Waltham  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02354  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: CD-ROM ISO9660  
; COMPUTER: PC  
; OPERATING SYSTEM: <Unknown>  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/107,532A  
; FILING DATE: 30-Jun-1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/085,598  
; FILING DATE: 14 May 1998  
; APPLICATION NUMBER: 60/051571  
; FILING DATE: July 2, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Arinello, Pamela Deneke

REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 5733:

SEQUENCE CHARACTERISTICS:

LENGTH: 575 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: YES

ORIGINAL SOURCE:

ORGANISM: Enterococcus faecium

FEATURE:

NAME/KEY: misc.feature

LOCATION: (B) LOCATION 1...575

SEQUENCE DESCRIPTION: SEQ ID NO: 5733:

US-09-107-532A-5733

Query Match 75.6%; Score 31; DB 2; Length 575;  
Best Local Similarity 75.0%; Pred. No. 2.7e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
|||:|:|  
Db 364 KTVLELTV 371

## RESULT 22

US-09-328-352-4973  
; Sequence 4973, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 4973  
; LENGTH: 1128  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-4973

Query Match 75.6%; Score 31; DB 2; Length 1128;  
Best Local Similarity 55.6%; Pred. No. 5.6e+02;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
|||:|:|  
Db 148 KTVLELTV 156

## RESULT 23

US-09-107-532A-5004  
; Sequence 5004, Application US/09107532A  
; Patent No. 6583275  
; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 7310  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
; STREET: 100 Beaver Street  
; CITY: Waltham  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02354  
; COMPUTER READABLE FORM:



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; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5004:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEetical: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (8) LOCATION 1..166
; SEQUENCE DESCRIPTION: SEQ ID NO: 5004:
US-09-107-532A-5004

Query Match          73.2%; Score 30; DB 2; Length 166;
Best Local Similarity 77.8%; Pred. No. 1.1e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
         |||||
Db      120 KDVLEATEV 128

RESULT 24
US-09-270-767-58131
; Sequence 58131, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 58131
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-58131

Query Match          73.2%; Score 30; DB 2; Length 180;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
         |||||
Db      22 KTIIELESE 29

RESULT 25
US-09-540-236-2012
; Sequence 2012, Application US/09540236
```

```

; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2012
; LENGTH: 202
; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-2012

Query Match          73.2%; Score 30; DB 2; Length 202;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 VLELTV 9
         |||||
Db      189 ILELTV 195

RESULT 26
US-09-248-796A-18704
; Sequence 18704, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18704
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-18704

Query Match          73.2%; Score 30; DB 2; Length 230;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
         |||||
Db      102 KQILELTV 109

RESULT 27
US-09-710-279-3062
; Sequence 3062, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3062
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Artificial Sequence
```

```

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-09-710-279-3062

Query Match      73.2%; Score 30; DB 2; Length 302;
Best Local Similarity 55.6%; Pred. No. 2.2e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
       |||:|:|:|
Db      170 KSLLELTDI 178

RESULT 28
US-09-134-001C-4521
; Sequence 4521, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134.001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4521
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4521

Query Match      73.2%; Score 30; DB 2; Length 315;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
       |||:|:|:|
Db      183 KSLLELTDI 191

RESULT 29
US-09-712-363-268
; Sequence 268, Application US/09712363
; Patent No. 6892139
; GENERAL INFORMATION:
; APPLICANT: Eisenberg, David
; APPLICANT: Rotstein, Sergio H.
; APPLICANT: Marcotte, Edward M.
; TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
; TITLE OF INVENTION: INTERACTIONS OF PROTEINS BY COMPARATIVE ANALYSIS
; FILE REFERENCE: 07419-023001
; CURRENT APPLICATION NUMBER: US/09/712.363
; CURRENT FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/US00/02246
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/119,531
; PRIOR FILING DATE: 2000-02-01
; PRIOR APPLICATION NUMBER: 60/117,844
; PRIOR FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: 60/118,206
; PRIOR FILING DATE: 1999-02-01
; PRIOR APPLICATION NUMBER: 60/126,553
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/134,093
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/134,092
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/165,124

; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/165,086
; PRIOR FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 292
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 268
; LENGTH: 408
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-712-363-268

Query Match      73.2%; Score 30; DB 2; Length 408;
Best Local Similarity 87.5%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
       |||:|:|:|
Db      224 KTVLELGE 231

RESULT 30
US-09-270-767-42815
; Sequence 42815, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 42815
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-42815

Query Match      73.2%; Score 30; DB 2; Length 423;
Best Local Similarity 62.5%; Pred. No. 3.1e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
       |||:|:|:|
Db      22 KTVLELSE 29

RESULT 31
US-09-198-452A-561
; Sequence 561, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffois, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 561
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-561

Query Match      73.2%; Score 30; DB 2; Length 519;
Best Local Similarity 87.5%; Pred. No. 3.9e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTVLELTV 8
       |||:|:|:|
```

Db 171 KTVNELTE 178

RESULT 32  
US-09-438-185A-523  
Sequence 523, Application US/09438185A  
Patent No. 6822071  
GENERAL INFORMATION:  
APPLICANT: Stephens, Richard  
APPLICANT: Mitchell, Wayne  
APPLICANT: Kaiman, Sue  
APPLICANT: Davis, Ronald  
APPLICANT: The Regents of the University of California  
TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence  
FILE REFERENCE: 018941-000411US  
CURRENT APPLICATION NUMBER: US/09/438,185A  
CURRENT FILING DATE: 2002-03-13  
PRIOR APPLICATION NUMBER: US 60/108,279  
PRIOR FILING DATE: 1998-11-12  
PRIOR APPLICATION NUMBER: US 60/128,606  
PRIOR FILING DATE: 1999-04-08  
NUMBER OF SEQ ID NOS: 1074  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 523  
LENGTH: 521  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
FEATURE:  
OTHER INFORMATION: CPn0521  
US-09-438-185A-523

Query Match 73.2%; Score 30; DB 2; Length 521;  
Best Local Similarity 87.5%; Pred. No. 3.9e+02;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVNELTE 8  
Db 173 KTVNELTE 180

RESULT 33  
US-09-233-989-5  
Sequence 5, Application US/09233989  
Patent No. 6248527  
GENERAL INFORMATION:  
APPLICANT: Chen, Joanne  
APPLICANT: Meyer, Joanne  
TITLE OF INVENTION: Method of Detecting Risk of Type II Diabetes Based on  
TITLE OF INVENTION: Mutations Found in Carboxypeptidase E  
FILE REFERENCE: 5800-14, 035800/174130  
CURRENT APPLICATION NUMBER: US/09/233,989  
CURRENT FILING DATE: 1999-01-19  
EARLIER APPLICATION NUMBER: 60/105,102  
EARLIER FILING DATE: 1998-10-21  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 5  
LENGTH: 561  
TYPE: PRT  
ORGANISM: bovine  
FEATURE:  
OTHER INFORMATION: carboxypeptidase E  
US-09-233-989-5

Query Match 73.2%; Score 30; DB 2; Length 561;  
Best Local Similarity 85.7%; Pred. No. 4.2e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 KTVNELTE 8  
Db 84 KTVNELTE 90

RESULT 34  
US-09-107-532A-5096  
Sequence 5096, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 5096:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 738 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...738  
SEQUENCE DESCRIPTION: SEQ ID NO: 5096:  
US-09-107-532A-5096

Query Match 73.2%; Score 30; DB 2; Length 738;  
Best Local Similarity 66.7%; Pred. No. 5.6e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVNELTEV 9  
Db 712 KTVNELTEH 720

RESULT 35  
US-07-921-807B-2  
Sequence 2, Application US/07921807B  
Patent No. 5474914  
GENERAL INFORMATION:  
APPLICANT: SPARE, RICHARD  
TITLE OF INVENTION: METHOD OF INCREASING EXPRESSION  
TITLE OF INVENTION: OF VIRAL PROTEINS  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CHIRON CORPORATION  
STREET: 4560 Horton Street - R440

CITY: Emeryville  
STATE: CA  
COUNTRY: USA  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/921,807B  
FILING DATE: 29-SEP-1992  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MCCUNG, BARBARA G.  
REGISTRATION NUMBER: 33,113  
REFERENCE/DOCKET NUMBER: 0209.001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 601-2708  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 742 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-921-807B-2

Query Match 73.2%; Score 30; DB 1; Length 742;  
Best Local Similarity 75.0%; Pred. No. 5.7e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TVLELTV 9  
Db 702 TVLELTV 709

RESULT 36  
US-08-441-944A-2  
Sequence 2, Application US/08441944A  
Patent No. 5767250  
GENERAL INFORMATION:  
APPLICANT: SPARE, RICHARD  
TITLE OF INVENTION: METHOD OF INCREASING EXPRESSION  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CHIRON CORPORATION  
STREET: 4560 Horton Street - R440  
CITY: Emeryville  
STATE: CA  
COUNTRY: USA  
ZIP: 94608-2916  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/441,944A  
FILING DATE: 16-MAY-1995  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/921,807  
FILING DATE: 29-SEP-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: MCCUNG, BARBARA G.  
REGISTRATION NUMBER: 33,113  
REFERENCE/DOCKET NUMBER: 0209.001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510) 601-2708  
TELEFAX: (510) 655-3542  
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 742 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-441-944A-2

Query Match 73.2%; Score 30; DB 1; Length 742;  
Best Local Similarity 75.0%; Pred. No. 5.7e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TVLELTV 9  
Db 702 TVLELTV 709

RESULT 37  
US-08-447-464-3  
Sequence 3, Application US/08447464  
Patent No. 5840842  
GENERAL INFORMATION:  
APPLICANT: Schlessinger, Joseph  
TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/447,464  
FILING DATE: 24-MAY-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/130,570  
FILING DATE: 01-OCT-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Mastrock, S. Leslie  
REGISTRATION NUMBER: 18,872  
REFERENCE/DOCKET NUMBER: 7683-043  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-790-9090  
TELEFAX: 212-869-8864/9741  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1501 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-447-464-3

Query Match 73.2%; Score 30; DB 1; Length 1501;  
Best Local Similarity 66.7%; Pred. No. 1.2e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 282 KTVLELTV 290

RESULT 38  
US-08-716-679-3  
Sequence 3, Application US/08716679

```
; Patent No. 5846800
; GENERAL INFORMATION:
; APPLICANT: Schleisinger, Joseph
; APPLICANT: Yan, Hai
; TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN
; TITLE OF INVENTION: PHOSPHOTRANSFERASE-SIGNAL
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/716,679
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/130,570
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 7683-043
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1501 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-716-679-3

Query Match      73.2%; Score 30; DB 1; Length 1501;
Best Local Similarity 66.7%; Pred. No. 1.2e+03;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KTVLELTV 9
Db      282 RNVLTLTV 290

RESULT 39
US-09-920-653B-3
; Sequence 3, Application US/09920653B
; Patent No. 6933422
; GENERAL INFORMATION:
; APPLICANT: Japan as Represented by Director General of Okazaki National
; APPLICANT: Research
; APPLICANT: Institutes
; TITLE OF INVENTION: Nav2 channel gene-deficient non-human animals
; FILE REFERENCE: U2001P059
; CURRENT APPLICATION NUMBER: US/09/920,653B
; CURRENT FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: JP 2000/237320
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: JP 2000/241637
; PRIOR FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: JP 2001/222263
; PRIOR FILING DATE: 2001-07-23
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1681
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; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-920-653B-3

Query Match      73.2%; Score 30; DB 2; Length 1681;
Best Local Similarity 85.7%; Pred. No. 1.4e+03;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      3 VLELTV 9
Db      579 VLELTV 585

RESULT 40
US-08-348-006B-5
; Sequence 5, Application US/08348006B
; Patent No. 5658756
; GENERAL INFORMATION:
; APPLICANT: RODAN, GIDEON A.
; APPLICANT: SCHMIDT, AZRIEL
; APPLICANT: RUTLEDGE, SU JANE
; TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: J. MARK HAND
; STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
; CITY: RAHWAY
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/348,006B
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,032
; FILING DATE: 14-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: HAND, J., MARK
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 189921A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-594-3905
; TELEFAX: 908-594-4720
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1911 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-348-006B-5

Query Match      73.2%; Score 30; DB 1; Length 1911;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 KTVLELTV 9
Db      282 RNVLTLTV 290

RESULT 41
US-08-800-825A-5
; Sequence 5, Application US/08800825A
; Patent No. 5866397
; GENERAL INFORMATION:
```

APPLICANT: RODAN, GIDEON A.  
APPLICANT: SCHMIDT, AZRIEL  
APPLICANT: RUTLEDGE, SU JANE  
TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN  
TITLE OF INVENTION: TYROSINE PHOSPHATASE  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: J. MARK HAND - MERCK & CO., INC.  
STREET: 126 E. LINCOLN AVE., P.O. BOX 2000  
CITY: RAHWAY  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800,825A  
FILING DATE: 14-FEB-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: HAND, J. MARK  
REGISTRATION NUMBER: 36,545  
REFERENCE/DOCKET NUMBER: 18992DA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-3905  
TELEFAX: 732-594-4720  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1911 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-800-825A-5

Query Match 73.2%; Score 30; DB 1; Length 1911;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 282 RNVLRLTV 290

RESULT 42  
US-09-158-657-5  
Sequence 5, Application US/09158657  
Patent No. 6214564  
GENERAL INFORMATION:  
APPLICANT: RODAN, GIDEON A.  
APPLICANT: SCHMIDT, AZRIEL  
APPLICANT: RUTLEDGE, SU JANE  
TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN  
TITLE OF INVENTION: TYROSINE PHOSPHATASE  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: J. MARK HAND - MERCK & CO., INC.  
STREET: 126 E. LINCOLN AVE., P.O. BOX 2000  
CITY: RAHWAY  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07065-0900  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/158,657  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/800,825  
FILING DATE: 14-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: HAND, J. MARK  
REGISTRATION NUMBER: 36,545  
REFERENCE/DOCKET NUMBER: 18992DA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 732-594-3905  
TELEFAX: 732-594-4720  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1911 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-158-657-5

Query Match 73.2%; Score 30; DB 2; Length 1911;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 282 RNVLRLTV 290

RESULT 43  
PCT-US94-10166-5  
Sequence 5, Application PC/TUS9410166  
GENERAL INFORMATION:  
APPLICANT: RODAN, GIDEON A.  
APPLICANT: SCHMIDT, AZRIEL  
APPLICANT: RUTLEDGE, SU JANE  
TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN  
TITLE OF INVENTION: TYROSINE PHOSPHATASE  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: JOHN W. WALLEN III  
STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.  
CITY: RAHWAY  
STATE: NJ  
COUNTRY: USA  
ZIP: 07065  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/10166  
FILING DATE: 09-SEP-1994  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/122,032  
FILING DATE: 14-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: WALLEN, JOHN W III  
REGISTRATION NUMBER: 35403  
REFERENCE/DOCKET NUMBER: 18992  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 908-594-3905  
TELEFAX: 908-594-4720  
TELEX: 138825  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1911 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein

PCT-US94-10166-5

Query Match 73.2%; Score 30; DB 4; Length 1911;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
:|||||:  
Db 282 RNVLFTDV 290

RESULT 44  
US-09-513-999C-4219  
; Sequence 4219, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclet, A.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59. US2. REG  
; CURRENT APPLICATION NUMBER: US/09/513.999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 4219  
; LENGTH: 62  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -17..-1  
; OTHER INFORMATION: score 13  
; OTHER INFORMATION: seq IFLLCLAGRALA/AP  
US-09-513-999C-4219

Query Match 70.7%; Score 29; DB 2; Length 62;  
Best Local Similarity 66.7%; Pred. No. 63;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
:|||||:  
Db 33 ETVAEVTV 41

RESULT 45  
US-09-513-999C-4220  
; Sequence 4220, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclet, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59. US2. REG  
; CURRENT APPLICATION NUMBER: US/09/513.999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 4220  
; LENGTH: 72  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -17..-1  
; OTHER INFORMATION: score 13

; OTHER INFORMATION: seq IFLLCLAGRALA/AP  
US-09-513-999C-4220

Query Match 70.7%; Score 29; DB 2; Length 72;  
Best Local Similarity 66.7%; Pred. No. 74;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
:|||||:  
Db 33 ETVAEVTV 41

RESULT 46  
US-09-902-540-11096  
; Sequence 11096, Application US/09902540  
; Patent No. 6833447  
; GENERAL INFORMATION:  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Wiegand, Roger C.  
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
; FILE REFERENCE: 38-10(115849)B  
; CURRENT APPLICATION NUMBER: US/09/902,540  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: 60/217,883  
; PRIOR FILING DATE: 2000-07-10  
; NUMBER OF SEQ ID NOS: 16825  
; SEQ ID NO 11096  
; LENGTH: 94  
; TYPE: PRT  
; ORGANISM: Myxococcus xanthus  
US-09-902-540-11096

Query Match 70.7%; Score 29; DB 2; Length 94;  
Best Local Similarity 55.6%; Pred. No. 98;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
:|||||:  
Db 43 KTVLFTDV 51

RESULT 47  
US-09-248-796A-14182  
; Sequence 14182, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 14182  
; LENGTH: 121  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-14182

Query Match 70.7%; Score 29; DB 2; Length 121;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
:|||||:  
Db 85 KTVLELTV 92

RESULT 48  
US-09-513-999C-4218  
; Sequence 4218, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 4218  
; LENGTH: 124  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -17..-1  
; OTHER INFORMATION: score 13  
; OTHER INFORMATION: seq IFFLLCLAGRLA/AP  
US-09-513-999C-4218

Query Match 70.7%; Score 29; DB 2; Length 124;  
Best Local Similarity 66.7%; Pred. No. 1.3e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
DB 33 ETVAEVTVEV 41

RESULT 49  
US-09-710-279-3086  
; Sequence 3086, Application US/09710279  
; Patent No. 6703492  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/09/710,279  
; CURRENT FILING DATE: 2000-11-09  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3086  
; LENGTH: 131  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: amino acid sequence  
US-09-710-279-3086

Query Match 70.7%; Score 29; DB 2; Length 131;  
Best Local Similarity 55.6%; Pred. No. 1.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
DB 97 KTVMDLMEI 105

RESULT 50  
US-09-513-999C-7844  
; Sequence 7844, Application US/09513999C

; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 7844  
; LENGTH: 136  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: -24..-1  
; OTHER INFORMATION: score 9.4  
; OTHER INFORMATION: seq LLSGALLTETMA/XS  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: -15  
; OTHER INFORMATION: Xaa=Ile or Leu  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 1  
; OTHER INFORMATION: Xaa=Cys or Gly  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 9  
; OTHER INFORMATION: Xaa=Asp or Tyr  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 24  
; OTHER INFORMATION: Xaa=Ala or Ser  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 45  
; OTHER INFORMATION: Xaa=Glu or Gly  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 52  
; OTHER INFORMATION: Xaa=Ile or Met or Val  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 63  
; OTHER INFORMATION: Xaa=Asp or Glu or Lys or Asn  
; FEATURE:  
; NAME/KEY: UNSURE  
; LOCATION: 89  
; OTHER INFORMATION: Xaa=Lys or Asn or Arg or Ser  
US-09-513-999C-7844

Query Match 70.7%; Score 29; DB 2; Length 136;  
Best Local Similarity 85.7%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 7  
DB 102 KTVLELTV 108

Search completed: May 5, 2006, 02:25:34  
Job time : 25.8 secs



GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds  
(without alignments)  
67.271 Million cell updates/sec

Title: US-08-170-344-25  
Perfect score: 41  
Sequence: 1 KTVLETRV 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_Main:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBSCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBSCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBSCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBSCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBSCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBSCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	41	100.0	9	5	US-10-751-845-132
2	41	100.0	42	5	US-10-751-845-152
3	41	100.0	119	5	US-10-751-845-159
4	41	100.0	158	5	US-10-800-023-27
5	41	100.0	158	6	US-11-021-948-28
6	41	100.0	172	4	US-10-472-724-6
7	41	100.0	236	5	US-10-751-845-157
8	41	100.0	237	5	US-10-751-845-158
9	41	100.0	261	5	US-10-751-845-160
10	41	100.0	278	4	US-10-000-903-21
11	41	100.0	278	5	US-10-899-771-21
12	41	100.0	383	4	US-10-000-903-23
13	41	100.0	383	4	US-10-899-771-23
14	41	100.0	74	4	US-10-236-392-88
15	33	80.5	86	4	US-10-282-122A-45170
16	33	80.5	128	4	US-10-425-115-340269
17	33	80.5	129	4	US-10-282-122A-76448
18	33	80.5	145	4	US-10-236-392-84
19	33	80.5	145	4	US-10-236-392-86
20	33	80.5	161	4	US-10-236-392-90
21	33	80.5	327	3	US-09-925-301-862
22	33	80.5	346	4	US-10-282-122A-71775
23	33	80.5	500	4	US-10-005-956-22
24	33	80.5	500	4	US-10-005-956-24
25	33	80.5	500	4	US-10-005-956-26
26	33	80.5	500	4	US-10-005-956-28
27	33	80.5	500	4	US-10-005-956-30

28	33	80.5	500	4	US-10-005-956-294	Sequence 294, App
29	33	80.5	500	5	US-10-989-891-145	Sequence 145, App
30	33	80.5	522	4	US-10-264-049-2645	Sequence 2645, Ap
31	33	80.5	778	4	US-10-424-599-183425	Sequence 183425,
32	32	78.0	46	4	US-10-424-599-238328	Sequence 238328,
33	32	78.0	267	4	US-10-425-115-186757	Sequence 186757,
34	32	78.0	276	3	US-09-980-217-15	Sequence 15, Appl
35	32	78.0	398	3	US-09-864-671-37735	Sequence 37735, A
36	32	78.0	1046	3	US-10-369-493-3073	Sequence 3073, Ap
37	31	75.6	10	5	US-10-751-845-136	Sequence 136, App
38	31	75.6	52	3	US-09-764-869-1229	Sequence 1229, Ap
39	31	75.6	52	4	US-10-091-504-1229	Sequence 1229, Ap
40	31	75.6	52	4	US-10-327-577-1229	Sequence 1229, Ap
41	31	75.6	118	4	US-10-437-663-204256	Sequence 204256,
42	31	75.6	291	4	US-10-043-487-360	Sequence 360, App
43	31	75.6	333	4	US-10-369-493-5584	Sequence 5584, Ap
44	31	75.6	368	4	US-10-424-599-177645	Sequence 177645,
45	31	75.6	496	4	US-10-097-559-40	Sequence 1085, Ap
46	31	75.6	496	5	US-10-732-923-1085	Sequence 51933, A
47	31	75.6	509	5	US-10-450-763-51933	Sequence 2659, Ap
48	31	75.6	538	4	US-10-094-749-2659	Sequence 31, Appl
49	31	75.6	575	5	US-10-818-066-34	Sequence 152, App
50	31	75.6	693	5	US-10-504-582-152	Sequence 45269, A
51	31	75.6	1093	4	US-10-282-122A-45269	Sequence 199277,
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53	30	73.2	106	4	US-10-424-599-261312	Sequence 7308, Ap
54	30	73.2	114	5	US-10-732-923-7308	Sequence 67806, A
55	30	73.2	121	4	US-10-282-122A-67806	Sequence 191724,
56	30	73.2	122	4	US-10-424-599-191724	Sequence 237241,
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58	30	73.2	202	4	US-10-108-260A-4236	Sequence 5069, A
59	30	73.2	242	4	US-10-282-122A-52069	Sequence 227242,
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61	30	73.2	307	5	US-10-470-048B-270	Sequence 5080, Ap
62	30	73.2	315	4	US-10-724-972A-5080	Sequence 49101, A
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65	30	73.2	325	4	US-10-112-706-2	Sequence 3, Appl
66	30	73.2	329	4	US-10-112-706-3	Sequence 4, Appl
67	30	73.2	330	4	US-10-112-706-4	Sequence 9069, Ap
68	30	73.2	376	5	US-10-739-930-9069	Sequence 268, App
69	30	73.2	408	5	US-09-712-363-268	Sequence 61733, A
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71	30	73.2	408	4	US-10-282-122A-62778	Sequence 64856, A
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73	30	73.2	493	6	US-11-097-143-12564	Sequence 54774, A
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77	30	73.2	637	6	US-11-097-143-12783	Sequence 8, Appl
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79	30	73.2	673	5	US-10-968-812-2	Sequence 3642, Ap
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82	30	73.2	1233	4	US-10-369-493-16402	Sequence 54, Appl
83	30	73.2	1294	5	US-10-732-923-17000	Sequence 44, Appl
84	30	73.2	1351	4	US-10-437-663-121746	Sequence 3, Appl
85	30	73.2	1495	4	US-10-258-666-12	Sequence 55, Appl
86	30	73.2	1502	3	US-09-808-602-54	Sequence 21, Appl
87	30	73.2	1681	3	US-09-800-198-44	Sequence 28, Appl
88	30	73.2	1681	3	US-09-920-653-3	Sequence 247031, A
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92	30	73.2	1948	3	US-09-800-198-45	Sequence 1737, Ap
93	30	73.2	1948	3	US-09-965-536A-21	Sequence 10970, A
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96	29	70.7	107	3	US-09-930-312-2	
97	29	70.7	110	4	US-10-424-599-279778	
98	29	70.7	110	4	US-10-437-663-160705	
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102	29	70.7	161	5	US-10-739-930-1081	Sequence 7081, Ap	175	29	70.7	718	3	US-09-928-175-3	Sequence 3, App1
103	29	70.7	168	4	US-10-424-539-179076	Sequence 179076,	176	29	70.7	724	5	US-10-994-987-82	Sequence 82, App1
104	29	70.7	171	4	US-10-282-122A-63195	Sequence 63195, A	177	29	70.7	726	4	US-10-467-252-1	Sequence 1, App1
105	29	70.7	234	3	US-09-992-600A-20	Sequence 20, App1	178	29	70.7	730	5	US-09-928-175-7	Sequence 7, App1
106	29	70.7	234	3	US-09-924-340-20	Sequence 20, App1	179	29	70.7	730	5	US-10-332-189A-15	Sequence 15, App1
107	29	70.7	234	3	US-09-992-095B-20	Sequence 20, App1	180	29	70.7	735	4	US-10-392-798-1090	Sequence 1090, Ap
108	29	70.7	234	3	US-09-999-570-20	Sequence 20, App1	181	29	70.7	737	3	US-09-965-536A-2	Sequence 2, App1
109	29	70.7	234	3	US-10-000-469-20	Sequence 20, App1	182	29	70.7	737	5	US-10-994-987-15	Sequence 15, App1
110	29	70.7	234	4	US-10-000-986-20	Sequence 20, App1	183	29	70.7	748	5	US-10-994-987-2	Sequence 2, App1
111	29	70.7	234	4	US-10-154-678-20	Sequence 20, App1	184	29	70.7	754	3	US-09-928-175-2	Sequence 2, App1
112	29	70.7	234	5	US-10-838-854-20	Sequence 20, App1	185	29	70.7	754	4	US-10-229-735-1	Sequence 1, App1
113	29	70.7	238	4	US-10-002-631C-118	Sequence 118, App	186	29	70.7	754	4	US-10-322-668-2	Sequence 2, App1
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115	29	70.7	253	4	US-10-369-493-5990	Sequence 2990, Ap	188	29	70.7	754	5	US-10-951-756-2	Sequence 2, App1
116	29	70.7	260	4	US-10-072-012-853	Sequence 853, App	189	29	70.7	754	5	US-10-994-987-13	Sequence 13, App1
117	29	70.7	268	4	US-10-108-260A-4048	Sequence 4048, Ap	190	29	70.7	816	4	US-10-389-566-178	Sequence 1768, Ap
118	29	70.7	275	4	US-10-371-077-6	Sequence 6, App1	191	29	70.7	872	5	US-10-855-588-58	Sequence 58, App1
119	29	70.7	281	4	US-10-139-794-2	Sequence 2, App1	192	29	70.7	918	5	US-10-855-588-56	Sequence 56, App1
120	29	70.7	292	5	US-10-450-763-35634	Sequence 35634, A	193	29	70.7	919	4	US-10-406-073-4	Sequence 4, App1
121	29	70.7	303	3	US-09-983-000A-10	Sequence 10, App1	194	29	70.7	944	3	US-09-855-824-5	Sequence 5, App1
122	29	70.7	303	3	US-09-969-034-4475	Sequence 4475, Ap	195	29	70.7	964	5	US-10-476-542-5	Sequence 5, App1
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124	29	70.7	303	4	US-10-301-822-193	Sequence 193, App	197	29	70.7	998	5	US-10-855-588-54	Sequence 54, App1
125	29	70.7	303	4	US-10-231-956A-440	Sequence 440, App	198	29	70.7	999	3	US-09-747-371-2	Sequence 2, App1
126	29	70.7	303	4	US-10-610-049-22	Sequence 22, App1	199	29	70.7	999	3	US-09-930-512-65	Sequence 65, App1
127	29	70.7	303	4	US-10-734-564-92	Sequence 92, App1	200	29	70.7	999	4	US-10-177-293-45	Sequence 45, App1
128	29	70.7	303	4	US-10-468-091-17	Sequence 17, App1	201	29	70.7	999	4	US-10-341-434-208	Sequence 208, App
129	29	70.7	303	5	US-10-652-981-10	Sequence 10, App1	202	29	70.7	999	4	US-10-406-073-14	Sequence 14, App1
130	29	70.7	303	5	US-10-852-335A-188	Sequence 188, App	203	29	70.7	999	4	US-10-295-027-52	Sequence 52, App1
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133	29	70.7	327	3	US-10-467-492A-66	Sequence 66, App1	206	29	70.7	999	4	US-10-231-913-89	Sequence 89, App1
134	29	70.7	327	5	US-10-975-979-66	Sequence 66, App1	207	29	70.7	999	4	US-10-058-270A-64	Sequence 64, App1
135	29	70.7	327	5	US-10-969-727-66	Sequence 66, App1	208	29	70.7	999	4	US-10-029-020-36	Sequence 36, App1
136	29	70.7	329	4	US-10-282-122A-74511	Sequence 74511, A	209	29	70.7	1007	5	US-09-957-005-9	Sequence 9, App1
137	29	70.7	336	3	US-09-815-242-13671	Sequence 13671, A	210	29	70.7	1027	5	US-10-855-588-60	Sequence 60, App1
138	29	70.7	336	4	US-10-282-122A-73791	Sequence 73791, A	211	29	70.7	1222	6	US-11-097-143-38403	Sequence 38403, A
139	29	70.7	336	5	US-10-472-928-604	Sequence 604, App	212	29	70.7	1317	4	US-10-282-122A-46390	Sequence 46390, A
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141	29	70.7	345	4	US-10-282-122A-49628	Sequence 49628, A	214	29	70.7	3331	5	US-10-719-547-21	Sequence 21, App1
142	29	70.7	354	4	US-10-282-122A-74256	Sequence 74256, A	215	29	70.7	3331	5	US-10-871-775-31	Sequence 31, App1
143	29	70.7	355	4	US-10-321-807-18	Sequence 18, App1	216	29	70.7	8805	6	US-11-097-143-28128	Sequence 28128, A
144	29	70.7	355	4	US-10-321-807-18	Sequence 18, App1	217	28	68.3	46	3	US-09-864-761-46579	Sequence 46579, A
145	29	70.7	355	4	US-10-314-048A-18	Sequence 18, App1	218	28	68.3	53	5	US-10-472-928-904	Sequence 904, App
146	29	70.7	355	5	US-10-332-189A-10	Sequence 10, App1	219	28	68.3	57	4	US-10-470-957-33	Sequence 33, App1
147	29	70.7	355	5	US-10-897-815-18	Sequence 18, App1	220	28	68.3	61	4	US-10-029-386-28227	Sequence 28227, A
148	29	70.7	355	5	US-10-930-662-18	Sequence 18, App1	221	28	68.3	63	4	US-10-424-599-253287	Sequence 253287, A
149	29	70.7	392	5	US-10-450-763-50220	Sequence 50220, A	222	28	68.3	66	3	US-09-872-523-66	Sequence 66, App1
150	29	70.7	406	4	US-10-287-226-436	Sequence 436, App	223	28	68.3	66	5	US-10-839-896-66	Sequence 66, App1
151	29	70.7	406	4	US-10-287-226-438	Sequence 438, App	224	28	68.3	68	4	US-10-424-599-242865	Sequence 242865, A
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157	29	70.7	440	4	US-10-389-566-1194	Sequence 1194, Ap	230	28	68.3	97	4	US-10-425-115-336211	Sequence 336211, A
158	29	70.7	462	5	US-10-450-763-33441	Sequence 33441, A	231	28	68.3	100	4	US-10-425-115-358731	Sequence 358731, A
159	29	70.7	473	4	US-10-389-566-2407	Sequence 2407, Ap	232	28	68.3	115	3	US-09-738-626-3792	Sequence 3792, Ap
160	29	70.7	479	5	US-10-450-763-57137	Sequence 57137, A	233	28	68.3	121	4	US-10-389-566-1178	Sequence 1178, Ap
161	29	70.7	483	5	US-10-450-763-33014	Sequence 33014, A	234	28	68.3	121	5	US-10-499-065A-444	Sequence 444, App
162	29	70.7	483	5	US-10-450-763-48975	Sequence 48975, A	235	28	68.3	122	3	US-09-815-242-5019	Sequence 5019, App
163	29	70.7	491	5	US-10-332-189A-7	Sequence 7, App1	236	28	68.3	122	3	US-09-815-242-10615	Sequence 10615, A
164	29	70.7	515	5	US-10-332-189A-5	Sequence 5, App1	237	28	68.3	122	4	US-10-389-566-2309	Sequence 2309, App
165	29	70.7	609	5	US-10-510-812-10	Sequence 10, App1	238	28	68.3	123	4	US-10-282-122A-42450	Sequence 42450, A
166	29	70.7	610	5	US-10-332-189A-1	Sequence 1, App1	239	28	68.3	123	4	US-10-282-122A-53345	Sequence 53345, A
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248	28	68.3	138	4	US-10-029-386-35529	Sequence 30529, A	321	28	68.3	468	4	US-10-337-813-12	Sequence 12, Appl
249	28	68.3	160	5	US-10-732-923-10845	Sequence 10845, A	322	28	68.3	468	4	US-10-339-668-12	Sequence 12, Appl
250	28	68.3	160	5	US-10-732-923-10846	Sequence 10846, A	323	28	68.3	468	4	US-10-467-048A-2	Sequence 2, Appl1
251	28	68.3	161	4	US-10-767-701-41214	Sequence 41214, A	324	28	68.3	468	4	US-10-717-049-12	Sequence 12, Appl
252	28	68.3	162	3	US-09-738-973-93	Sequence 93, Appl	325	28	68.3	468	5	US-10-349-528-32	Sequence 32, Appl
253	28	68.3	162	3	US-09-854-133-93	Sequence 93, Appl	326	28	68.3	468	5	US-10-690-980-37	Sequence 37, Appl
254	28	68.3	162	3	US-10-144-649A-93	Sequence 93, Appl	327	28	68.3	468	5	US-10-899-458-24	Sequence 24, Appl
255	28	68.3	162	4	US-10-767-701-38881	Sequence 38881, A	328	28	68.3	468	5	US-10-450-793-10	Sequence 6, Appl1
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257	28	68.3	162	5	US-10-473-127-460	Sequence 460, App	330	28	68.3	473	4	US-10-369-493-17117	Sequence 17117, A
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259	28	68.3	171	4	US-10-369-493-9717	Sequence 9717, Ap	332	28	68.3	486	4	US-10-425-115-294268	Sequence 294268, A
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263	28	68.3	185	5	US-10-767-701-33941	Sequence 33941, A	336	28	68.3	548	5	US-10-450-763-34621	Sequence 34621, A
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266	28	68.3	191	4	US-10-424-599-271975	Sequence 271975, A	339	28	68.3	558	5	US-10-450-763-4816	Sequence 4816, A
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273	28	68.3	236	4	US-10-282-122A-52313	Sequence 52313, A	346	28	68.3	622	4	US-10-024-298A-63	Sequence 63, Appl
274	28	68.3	240	4	US-10-706-691-20	Sequence 20, Appl	347	28	68.3	622	4	US-10-042-211A-63	Sequence 63, Appl
275	28	68.3	246	4	US-10-706-691-43	Sequence 43, Appl	348	28	68.3	622	4	US-10-617-217A-63	Sequence 63, Appl
276	28	68.3	247	4	US-10-425-114-53645	Sequence 53645, A	349	28	68.3	622	4	US-10-424-298A-63	Sequence 63, Appl
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286	28	68.3	300	5	US-10-732-923-2572	Sequence 2572, Ap	359	28	68.3	649	5	US-10-370-715B-414	Sequence 414, App
287	28	68.3	310	3	US-09-071-035-412	Sequence 412, App	360	28	68.3	649	5	US-10-473-127-454	Sequence 454, App
288	28	68.3	310	4	US-10-206-576-412	Sequence 412, App	361	28	68.3	656	5	US-10-473-127-456	Sequence 456, App
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300	28	68.3	347	4	US-10-206-576-410	Sequence 410, App	373	28	68.3	732	4	US-10-739-930-6510	Sequence 5660, Ap
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314	28	68.3	444	6	US-11-097-143-8406	Sequence 102, App	388	28	68.3	902	5	US-10-353-690-96	Sequence 596, App
315	28	68.3	444	4	US-10-120-801-102	Sequence 652, App	389	28	68.3	902	5	US-10-756-149-5628	Sequence 596, App
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411	28	68.3	6815	6	US-11-097-143-27225	Sequence 27225, A	484	27	65.9	189	3	US-09-997-182-137	Sequence 137, App
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413	27	65.9	9	5	US-10-751-845-140	Sequence 140, App	486	27	65.9	194	4	US-10-389-566-1117	Sequence 1117, App
414	27	65.9	10	5	US-10-751-845-139	Sequence 139, App	487	27	65.9	196	5	US-10-450-763-41424	Sequence 41424, A
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416	27	65.9	25	3	US-09-305-736-368	Sequence 368, App	489	27	65.9	201	4	US-10-282-122A-43580	Sequence 43580, A
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543	27	65.9	294	4	US-10-306-762-107	Sequence 107, App	616	27	65.9	463	5	US-10-869-813-11	Sequence 11, Appl1
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757	27	65.9	2439	6	US-11-097-143-13386	Sequence 13386, A	830	26	63.4	137	4	US-10-390-986-24	Sequence 24, Appl



831	26	63.4	141	4	US-10-156-761-7622	Sequence 7622, Ap	904	26	63.4	226	4	US-10-282-122A-72926	Sequence 72926, A
832	26	63.4	145	3	US-09-864-761-55383	Sequence 35383, A	905	26	63.4	226	5	US-10-508-622-66	Sequence 66, Appl
833	26	63.4	147	4	US-10-043-487-325	Sequence 325, App	906	26	63.4	228	4	US-10-282-122A-75793	Sequence 75793, A
834	26	63.4	147	4	US-10-424-599-234722	Sequence 234722, A	907	26	63.4	228	4	US-10-424-599-273400	Sequence 273400, A
835	26	63.4	148	3	US-09-815-242-10090	Sequence 10090, A	908	26	63.4	229	4	US-10-425-115-245108	Sequence 245108, A
836	26	63.4	148	4	US-10-363-829-436	Sequence 436, App	909	26	63.4	230	4	US-10-369-493-44	Sequence 44, Appl
837	26	63.4	150	3	US-09-815-242-11641	Sequence 11641, A	910	26	63.4	230	4	US-10-767-701-38686	Sequence 38686, A
838	26	63.4	150	3	US-09-815-242-14053	Sequence 14053, A	911	26	63.4	232	5	US-10-802-034-2	Sequence 2, Appl
839	26	63.4	150	3	US-10-437-963-142380	Sequence 142380, A	912	26	63.4	233	3	US-09-815-242-10642	Sequence 10642, A
840	26	63.4	151	3	US-09-738-626-3719	Sequence 3719, Ap	913	26	63.4	233	4	US-10-374-780A-12384	Sequence 12384, A
841	26	63.4	151	4	US-10-425-114-42460	Sequence 42460, A	914	26	63.4	233	4	US-10-282-122A-57284	Sequence 57284, A
842	26	63.4	151	4	US-10-767-701-4896	Sequence 4896, A	915	26	63.4	234	4	US-10-437-963-116654	Sequence 116654, A
843	26	63.4	152	4	US-10-291-190-50	Sequence 50, Appl	916	26	63.4	235	5	US-10-501-282-1284	Sequence 1284, Ap
844	26	63.4	153	4	US-10-310-154-500	Sequence 500, App	917	26	63.4	236	4	US-10-425-114-129145	Sequence 129145, A
845	26	63.4	154	4	US-10-369-493-6033	Sequence 6033, Ap	918	26	63.4	236	4	US-10-424-599-166745	Sequence 166745, A
846	26	63.4	158	6	US-11-021-949-29	Sequence 29, Appl	919	26	63.4	236	4	US-10-282-122A-77247	Sequence 77247, A
847	26	63.4	158	6	US-11-021-949-361	Sequence 361, App	920	26	63.4	236	4	US-10-425-114-71028	Sequence 71028, A
848	26	63.4	158	6	US-10-437-963-13315	Sequence 13315, A	921	26	63.4	236	5	US-10-425-114-43665	Sequence 43665, A
849	26	63.4	162	5	US-10-732-923-10843	Sequence 10843, A	922	26	63.4	237	4	US-09-903-456-20	Sequence 20, Appl
850	26	63.4	163	5	US-10-732-923-10849	Sequence 10849, A	923	26	63.4	238	3	US-10-156-911-20	Sequence 20, Appl
851	26	63.4	164	5	US-10-108-260A-3484	Sequence 3484, Ap	924	26	63.4	238	4	US-10-408-736-17	Sequence 17, Appl
852	26	63.4	164	5	US-10-732-923-10852	Sequence 10852, A	925	26	63.4	238	4	US-10-912-446-20	Sequence 20, Appl
853	26	63.4	165	5	US-10-922-282-20	Sequence 20, Appl	926	26	63.4	238	5	US-10-912-446-20	Sequence 20, Appl
854	26	63.4	172	5	US-10-423-114-50069	Sequence 50069, A	927	26	63.4	239	4	US-10-425-115-398993	Sequence 398993, A
855	26	63.4	173	4	US-10-425-115-150922	Sequence 150922, A	928	26	63.4	240	4	US-10-001-843-197	Sequence 197, App
856	26	63.4	176	4	US-10-424-599-183302	Sequence 183302, A	929	26	63.4	240	4	US-10-309-851-4	Sequence 36, Appl
857	26	63.4	176	4	US-10-425-115-253392	Sequence 253392, A	930	26	63.4	240	4	US-10-309-851-36	Sequence 197, App
858	26	63.4	179	4	US-10-425-115-314935	Sequence 314935, A	931	26	63.4	240	6	US-11-005-609-197	Sequence 4, Appl
859	26	63.4	181	4	US-10-425-114-48762	Sequence 48762, A	932	26	63.4	241	4	US-10-177-191A-4	Sequence 4704, Ap
860	26	63.4	181	4	US-10-767-701-45559	Sequence 45559, A	933	26	63.4	248	4	US-10-369-493-3704	Sequence 266232, A
861	26	63.4	182	4	US-10-425-114-69811	Sequence 69811, A	934	26	63.4	251	4	US-10-369-493-7462	Sequence 7462, Ap
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863	26	63.4	183	5	US-10-795-927-8	Sequence 8, Appl	936	26	63.4	251	4	US-10-335-977-9235	Sequence 9235, Ap
864	26	63.4	185	4	US-10-767-701-46526	Sequence 46526, A	937	26	63.4	252	4	US-10-425-114-56398	Sequence 56398, A
865	26	63.4	187	3	US-09-925-301-1398	Sequence 1398, Ap	938	26	63.4	252	4	US-10-425-115-214852	Sequence 214852, A
866	26	63.4	189	4	US-10-425-115-341971	Sequence 341971, A	939	26	63.4	254	4	US-10-335-977-9237	Sequence 9237, Ap
867	26	63.4	190	4	US-10-767-701-33749	Sequence 33749, A	940	26	63.4	254	4	US-10-309-851-6	Sequence 6, Appl
868	26	63.4	191	3	US-09-811-284-161	Sequence 161, App	941	26	63.4	254	4	US-10-425-115-215795	Sequence 215795, A
869	26	63.4	192	4	US-10-767-701-62916	Sequence 62916, A	942	26	63.4	265	4	US-10-425-115-118633	Sequence 318633, A
870	26	63.4	193	4	US-10-282-122A-67223	Sequence 67223, A	943	26	63.4	265	4	US-10-424-599-150260	Sequence 150260, A
871	26	63.4	195	4	US-10-424-599-248890	Sequence 248890, A	944	26	63.4	266	4	US-10-424-599-180438	Sequence 180438, A
872	26	63.4	200	3	US-09-263-689-8	Sequence 8, Appl	945	26	63.4	266	4	US-10-425-115-190082	Sequence 190082, A
873	26	63.4	200	3	US-10-235-674-8	Sequence 8, Appl	946	26	63.4	269	4	US-10-291-265-344	Sequence 344, App
874	26	63.4	203	4	US-10-425-115-278648	Sequence 278648, A	947	26	63.4	269	4	US-09-934-455-162	Sequence 162, App
875	26	63.4	208	4	US-10-425-114-51675	Sequence 51675, A	948	26	63.4	270	3	US-09-934-455-162	Sequence 12, Appl
876	26	63.4	208	5	US-10-450-763-30529	Sequence 30529, A	949	26	63.4	270	3	US-09-809-920-12	Sequence 590, App
877	26	63.4	209	4	US-10-437-963-121690	Sequence 121690, A	950	26	63.4	270	4	US-10-225-066A-590	Sequence 208, App
878	26	63.4	213	4	US-10-291-190-35	Sequence 35, Appl	951	26	63.4	270	4	US-10-374-780A-208	Sequence 590, App
879	26	63.4	213	4	US-10-425-115-190087	Sequence 190087, A	952	26	63.4	270	5	US-10-225-066A-590	Sequence 55826, A
880	26	63.4	213	4	US-10-425-115-341968	Sequence 341968, A	953	26	63.4	271	4	US-10-369-339-39	Sequence 37, Appl
881	26	63.4	215	5	US-10-732-923-10949	Sequence 10949, A	954	26	63.4	273	4	US-10-369-339-39	Sequence 39, Appl
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883	26	63.4	216	5	US-10-732-923-10983	Sequence 10983, A	956	26	63.4	273	4	US-10-369-100-101	Sequence 101, App
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885	26	63.4	218	4	US-10-282-122A-71681	Sequence 71681, A	958	26	63.4	274	4	US-11-097-143-29532	Sequence 29, Appl
886	26	63.4	219	4	US-10-425-115-314934	Sequence 314934, A	959	26	63.4	274	5	US-10-650-274-116	Sequence 48, Appl
887	26	63.4	219	4	US-10-425-115-351099	Sequence 351099, A	960	26	63.4	274	6	US-10-425-115-33571	Sequence 86, Appl
888	26	63.4	220	4	US-10-437-963-110204	Sequence 110204, A	961	26	63.4	274	4	US-10-369-100-9	Sequence 9, Appl
889	26	63.4	220	4	US-10-695-994-7	Sequence 7, Appl	962	26	63.4	274	4	US-10-369-100-86	Sequence 138, App
890	26	63.4	222	4	US-10-425-115-318248	Sequence 318248, A	963	26	63.4	274	4	US-10-369-339-39	Sequence 29532, A
891	26	63.4	222	5	US-10-732-923-10857	Sequence 10857, A	964	26	63.4	274	4	US-10-369-339-39	Sequence 176, App
892	26	63.4	222	5	US-10-732-923-10980	Sequence 10980, A	965	26	63.4	274	6	US-10-425-115-33571	Sequence 343571, A
893	26	63.4	222	5	US-10-732-923-10981	Sequence 10981, A	966	26	63.4	277	5	US-09-071-035-400	Sequence 400, App
894	26	63.4	222	5	US-10-732-923-10982	Sequence 10982, A	967	26	63.4	277	6	US-10-425-115-33571	Sequence 400, App
895	26	63.4	222	5	US-10-732-923-10984	Sequence 10984, A	968	26	63.4	281	4	US-10-206-576-400	Sequence 400, App
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897	26	63.4	223	5	US-09-738-626-4214	Sequence 4214, Ap	970	26	63.4	289	5	US-10-369-493-10302	Sequence 1857, Ap
898	26	63.4	223	4	US-10-425-114-65936	Sequence 65936, A	971	26	63.4	291	4	US-10-374-780A-1857	Sequence 10, Appl
899	26	63.4	223	6	US-11-006-098-262	Sequence 262, App	972	26	63.4	291	6	US-10-424-599-154045	Sequence 154045, A
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901	26	63.4	226	3	US-09-904-994B-8	Sequence 8, Appl	974	26	63.4	296	3		
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977 26 63.4 296 4 US-10-206-576-152 Sequence 152, App
978 26 63.4 296 5 US-10-912-362-152 Sequence 152, App
979 26 63.4 296 5 US-10-450-763-35314 Sequence 35314, A
980 26 63.4 301 4 US-10-424-599-268067 Sequence 268067, A
981 26 63.4 302 4 US-10-767-701-44752 Sequence 44752, A
982 26 63.4 304 4 US-10-282-122A-47895 Sequence 47895, A
983 26 63.4 305 4 US-10-424-599-256582 Sequence 256582, A
984 26 63.4 305 4 US-10-424-599-259349 Sequence 259349, A
985 26 63.4 305 4 US-10-424-599-282805 Sequence 282805, A
986 26 63.4 306 4 US-10-369-493-9676 Sequence 9676, Ap
987 26 63.4 307 5 US-10-774-355A-2277 Sequence 2277, Ap
988 26 63.4 308 4 US-10-369-493-23066 Sequence 23066, A
989 26 63.4 308 4 US-10-282-122A-61302 Sequence 61302, A
990 26 63.4 308 4 US-10-282-122A-76833 Sequence 76833, A
991 26 63.4 308 5 US-10-450-763-38481 Sequence 38481, A
992 26 63.4 310 4 US-10-282-122A-51735 Sequence 51735, A
993 26 63.4 311 4 US-10-425-115-240340 Sequence 240340, A
994 26 63.4 311 4 US-10-437-963-183563 Sequence 183563, A
995 26 63.4 312 4 US-10-306-762-25 Sequence 25, Appl
996 26 63.4 312 4 US-10-424-599-201944 Sequence 201944, A
997 26 63.4 312 4 US-10-425-114-46269 Sequence 46269, A
998 26 63.4 313 4 US-10-282-122A-50247 Sequence 50247, A
999 26 63.4 313 4 US-10-437-963-163411 Sequence 163411, A
1000 26 63.4 313 4 US-10-770-127-33 Sequence 33, Appl
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## ALIGNMENTS

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RESULT 1
US-10-751-845-132
; Sequence 132, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 132
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-132

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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 KTVLELTV 9
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## RESULT 2

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; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
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; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 KTVLELTV 9
Db 28 KTVLELTV 36
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## RESULT 3

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US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
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Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 28 KTVLELTV 36
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## RESULT 4

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US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
; APPLICANT: Steitman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
```



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; TITLE OF INVENTION: of the Immune Response Therefrom
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27
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Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db       36 KTVLELTV 44
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US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOWOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

Query Match          100.0%; Score 41; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTVLELTV 9
        |||||
Db       36 KTVLELTV 44

RESULT 6
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US2004011806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zair Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
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; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6
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Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db       42 KTVLELTV 50
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RESULT 7
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
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Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 KTVLELTV 9
        |||||
Db       145 KTVLELTV 153
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RESULT 8
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
```

PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 158  
LENGTH: 237  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-158

Query Match 100.0%; Score 41; DB 5; Length 237;  
Best Local Similarity 100.0%; Pred. No. 5.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 KTVLELTV 9  
Db 146 KTVLELTV 154

RESULT 9  
US-10-751-845-160  
Sequence 160, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Robert M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/10/751,845  
PRIOR FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 160  
LENGTH: 261  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 41; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 5.7;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 KTVLELTV 9  
Db 170 KTVLELTV 178

RESULT 10  
US-10-000-903-21  
Sequence 21, Application US/10000903  
Publication No. US20020182221A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/10/000,903  
CURRENT FILING DATE: 2001-10-01  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 41; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 6.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 KTVLELTV 9  
Db 147 KTVLELTV 155

RESULT 11  
US-10-899-771-21  
Sequence 21, Application US/10899771  
Publication No. US20050031638A1  
GENERAL INFORMATION:  
APPLICANT: Dalemans, Wilfried L.J.  
APPLICANT: Gerard, Catherine Marie Ghislaine  
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
FILE REFERENCE: B45124  
CURRENT APPLICATION NUMBER: US/10/899,771  
CURRENT FILING DATE: 2004-07-27  
PRIOR APPLICATION NUMBER: US/09/581,976  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: PCT/EP98/08563  
PRIOR FILING DATE: 1998-12-18  
PRIOR APPLICATION NUMBER: GB 9727262.9  
PRIOR FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
influenzae B and B6 from Human papilloma virus type  
18)  
US-10-899-771-21

Query Match 100.0%; Score 41; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 6.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 KTVLELTV 9  
Db 147 KTVLELTV 155

RESULT 12  
US-10-000-903-23  
Sequence 23, Application US/10000903  
Publication No. US20020182221A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23

Query Match      100.0%; Score 41; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 8.8; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy      1 KTVLELTV 9
      |||||
Db      147 KTVLELTV 155

RESULT 13
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23

Query Match      100.0%; Score 41; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 8.8; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Qy      1 KTVLELTV 9
      |||||
Db      147 KTVLELTV 155

RESULT 14
US-10-236-392-88
; Sequence 88, Application US/10236392
; Publication No. US20040067490A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David W
; APPLICANT: Boldog, Ferenc L
; APPLICANT: Burgess, Catherine, E
; APPLICANT: Casman, Stacie J
```

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; APPLICANT: Catterton, Elina
; APPLICANT: Chapoval, Andrei
; APPLICANT: Crabtree, Julie
; APPLICANT: Edinger, Shlomit, R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gerlach, Valerie
; APPLICANT: Gorman, Linda
; APPLICANT: Grose, William M
; APPLICANT: Gusev, Vladimir
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Laroche, William J
; APPLICANT: Li, Li
; APPLICANT: MacDougall, John R
; APPLICANT: Malysankar, Uriel M
; APPLICANT: Miller, Charles E
; APPLICANT: Miller, Isabelle
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Paturajan, Meera
; APPLICANT: Pena, Carol A
; APPLICANT: Peyman, John A
; APPLICANT: Raetelli, Luca
; APPLICANT: Reiser, Daniel K
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Shenoy, Suresh
; APPLICANT: Shinkets, Richard A
; APPLICANT: Smithson, Glenda
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-442A
; CURRENT APPLICATION NUMBER: US/10/236,392
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US09/540,763
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: US60/390,155
; PRIOR FILING DATE: 2002-06-19
; PRIOR APPLICATION NUMBER: US09/635,949
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US60/318,765
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US60/357,303
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: US60/367,753
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: US60/369,479
; PRIOR FILING DATE: 2002-04-02
; PRIOR APPLICATION NUMBER: US09/659,634
; PRIOR FILING DATE: 2000-09-12
; PRIOR APPLICATION NUMBER: US60/318,120
; PRIOR FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: US60/318,130
; PRIOR FILING DATE: 2001-09-07
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 794
; SOFTWARE: Custom
; SEQ ID NO 88
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-236-392-88

Query Match      80.5%; Score 33; DB 4; Length 74;
Best Local Similarity 87.5%; Pred. No. 56; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 1;

Qy      1 KTVLELTV 8
      :|||
Db      17 QTVLELTV 24

RESULT 15
US-10-282-122A-45170
; Sequence 45170, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45170
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
;
US-10-282-122A-45170

Query Match      80.5%; Score 33; DB 4; Length 86;
Best Local Similarity 77.8%; Pred. No. 66;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KTYVLELTV 9
Db      15 KTYVLELTV 23

RESULT 16
US-10-425-115-340269
; Sequence 340269, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yina
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21 (53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 340269
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Zea mays
;

```

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; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_73495C.1.pep
US-10-425-115-340269

Query Match      80.5%; Score 33; DB 4; Length 128;
Best Local Similarity 87.5%; Pred. No. 16+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTYVLELTV 8
Db      100 QTYVLELTV 107

RESULT 17
US-10-282-122A-76448
; Sequence 76448, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76448
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Treponema pallidum
;
US-10-282-122A-76448

Query Match      80.5%; Score 33; DB 4; Length 129;
Best Local Similarity 66.7%; Pred. No. 16+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 KTYVLELTV 9
Db      16 KTYVLELTV 24

RESULT 18

```

US-10-236-392-84

; Sequence 84, Application US/10236392  
; Publication No. US20040067490A1

; GENERAL INFORMATION:

APPLICANT: Anderson, David W  
APPLICANT: Boldog, Ferenc L  
APPLICANT: Burgess, Catherine, E  
APPLICANT: Caeman, Stacie J  
APPLICANT: Catterton, Elina  
APPLICANT: Chapoval, Andrei  
APPLICANT: Crabtree, Julie  
APPLICANT: Edinger, Shlomit, R  
APPLICANT: Ellerman, Karen  
APPLICANT: Gerlach, Valerie  
APPLICANT: Gorman, Linda  
APPLICANT: Grose, William M  
APPLICANT: Gusev, Vladamir  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Larochele, William J  
APPLICANT: Li, Li  
APPLICANT: MacDougall, John R  
APPLICANT: Maizankar, Uriel M  
APPLICANT: Miller, Charles E  
APPLICANT: Miller, Isabelle  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Patturajan, Meera  
APPLICANT: Pena, Carol A  
APPLICANT: Peyman, John A  
APPLICANT: Rastelli, Luca  
APPLICANT: Reiger, Daniel K  
APPLICANT: Rothenberg, Mark E  
APPLICANT: Shenoy, Suresh  
APPLICANT: Shinkets, Richard A  
APPLICANT: Smithson, Glenda  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME  
FILE REFERENCE: 21402-442A  
CURRENT APPLICATION NUMBER: US/10/236,392  
PRIOR FILING DATE: 2002-09-06  
PRIOR APPLICATION NUMBER: US09/540,763  
PRIOR FILING DATE: 2000-03-30  
PRIOR APPLICATION NUMBER: US60/390,155  
PRIOR FILING DATE: 2002-06-19  
PRIOR APPLICATION NUMBER: US09/635,949  
PRIOR FILING DATE: 2000-08-10  
PRIOR APPLICATION NUMBER: US60/318,765  
PRIOR FILING DATE: 2001-09-12  
PRIOR APPLICATION NUMBER: US60/357,303  
PRIOR FILING DATE: 2002-02-15  
PRIOR APPLICATION NUMBER: US60/367,753  
PRIOR FILING DATE: 2002-03-25  
PRIOR APPLICATION NUMBER: US60/369,479  
PRIOR FILING DATE: 2002-04-02  
PRIOR APPLICATION NUMBER: US09/659,634  
PRIOR FILING DATE: 2000-09-12  
PRIOR APPLICATION NUMBER: US60/318,120  
PRIOR FILING DATE: 2001-09-07  
PRIOR APPLICATION NUMBER: US60/318,130  
PRIOR FILING DATE: 2001-09-07  
Remaining Prior Application data removed - See file wrapper or PALM.  
NUMBER OF SEQ ID NOS: 794  
SOFTWARE: Custom  
SEQ ID NO 84  
LENGTH: 145  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-236-392-84

Query Match 80.5%; Score 33; DB 4; Length 145;  
Best Local Similarity 87.5%; Pred. No. 1.2e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
:|||||

Db 89 QTVLELTE 96

RESULT 19

US-10-236-392-86

; Sequence 86, Application US/10236392  
; Publication No. US20040067490A1

; GENERAL INFORMATION:

APPLICANT: Anderson, David W  
APPLICANT: Boldog, Ferenc L  
APPLICANT: Burgess, Catherine, E  
APPLICANT: Caeman, Stacie J  
APPLICANT: Catterton, Elina  
APPLICANT: Chapoval, Andrei  
APPLICANT: Crabtree, Julie  
APPLICANT: Edinger, Shlomit, R  
APPLICANT: Ellerman, Karen  
APPLICANT: Gerlach, Valerie  
APPLICANT: Gorman, Linda  
APPLICANT: Grose, William M  
APPLICANT: Gusev, Vladamir  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Larochele, William J  
APPLICANT: Li, Li  
APPLICANT: MacDougall, John R  
APPLICANT: Maizankar, Uriel M  
APPLICANT: Miller, Charles E  
APPLICANT: Miller, Isabelle  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Patturajan, Meera  
APPLICANT: Pena, Carol A  
APPLICANT: Peyman, John A  
APPLICANT: Rastelli, Luca  
APPLICANT: Reiger, Daniel K  
APPLICANT: Rothenberg, Mark E  
APPLICANT: Shenoy, Suresh  
APPLICANT: Shinkets, Richard A  
APPLICANT: Smithson, Glenda  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME  
FILE REFERENCE: 21402-442A  
CURRENT APPLICATION NUMBER: US/10/236,392  
PRIOR FILING DATE: 2002-09-06  
PRIOR APPLICATION NUMBER: US09/540,763  
PRIOR FILING DATE: 2000-03-30  
PRIOR APPLICATION NUMBER: US60/390,155  
PRIOR FILING DATE: 2002-06-19  
PRIOR APPLICATION NUMBER: US09/635,949  
PRIOR FILING DATE: 2000-08-10  
PRIOR APPLICATION NUMBER: US60/318,765  
PRIOR FILING DATE: 2001-09-12  
PRIOR APPLICATION NUMBER: US60/357,303  
PRIOR FILING DATE: 2002-02-15  
PRIOR APPLICATION NUMBER: US60/367,753  
PRIOR FILING DATE: 2002-03-25  
PRIOR APPLICATION NUMBER: US60/369,479  
PRIOR FILING DATE: 2002-04-02  
PRIOR APPLICATION NUMBER: US09/659,634  
PRIOR FILING DATE: 2000-09-12  
PRIOR APPLICATION NUMBER: US60/318,120  
PRIOR FILING DATE: 2001-09-07  
PRIOR APPLICATION NUMBER: US60/318,130  
PRIOR FILING DATE: 2001-09-07  
Remaining Prior Application data removed - See file wrapper or PALM.  
NUMBER OF SEQ ID NOS: 794  
SOFTWARE: Custom  
SEQ ID NO 86  
LENGTH: 145  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-236-392-86

Query Match 80.5%; Score 33; DB 4; Length 145;  
Best Local Similarity 87.5%; Pred. No. 1.2e+02;

Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELITE 8  
Db 86 QTVLELITE 93

RESULT 20  
US-10-236-392-90

; Sequence 90, Application US/10236392  
; Publication No. US20040067490A1  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, David W  
; APPLICANT: Boldog, Ferenc L  
; APPLICANT: Burgees, Catherine, E  
; APPLICANT: Caeman, Scacie J  
; APPLICANT: Carterton, Elina  
; APPLICANT: Chapoval, Andrei  
; APPLICANT: Crabtree, Julie  
; APPLICANT: Edinger, Shlomit, R  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Gorman, Linda  
; APPLICANT: Grosee, William M  
; APPLICANT: Gusev, Vladimir  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Larocheille, William J  
; APPLICANT: Li, Li  
; APPLICANT: MacDougall, John R  
; APPLICANT: Malysankar, Uriel M  
; APPLICANT: Miller, Charles E  
; APPLICANT: Miller, Isabelle  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Patutajan, Meera  
; APPLICANT: Pena, Carol A  
; APPLICANT: Peyman, John A  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Reiger, Daniel K  
; APPLICANT: Rothenberg, Mark E  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Shmkeon, Richard A  
; APPLICANT: Smithson, Glenda  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-442A  
; CURRENT APPLICATION NUMBER: US/10/236,392  
; CURRENT FILING DATE: 2002-09-06  
; PRIOR APPLICATION NUMBER: US09/540,763  
; PRIOR FILING DATE: 2000-03-30  
; PRIOR APPLICATION NUMBER: US60/390,155  
; PRIOR FILING DATE: 2002-06-19  
; PRIOR APPLICATION NUMBER: US09/635,949  
; PRIOR FILING DATE: 2000-08-10  
; PRIOR APPLICATION NUMBER: US60/318,765  
; PRIOR FILING DATE: 2001-09-12  
; PRIOR APPLICATION NUMBER: US60/357,303  
; PRIOR FILING DATE: 2002-02-15  
; PRIOR APPLICATION NUMBER: US60/367,753  
; PRIOR FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER: US60/369,479  
; PRIOR FILING DATE: 2002-04-02  
; PRIOR APPLICATION NUMBER: US09/659,634  
; PRIOR FILING DATE: 2000-09-12  
; PRIOR APPLICATION NUMBER: US60/318,120  
; PRIOR FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: US60/318,130  
; PRIOR FILING DATE: 2001-09-07  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 794  
; SOFTWARE: Custom  
; SEQ ID NO 90  
; LENGTH: 161  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-10-236-392-90

Query Match 80.5%; Score 33; DB 4; Length 161;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELITE 8  
Db 105 QTVLELITE 112

RESULT 21  
US-09-925-301-862

; Sequence 862, Application US/09925301  
; Patent No. US20020052308A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA106  
; CURRENT APPLICATION NUMBER: US/09/925,301  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05882  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1694  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 862  
; LENGTH: 327  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (307)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-925-301-862

Query Match 80.5%; Score 33; DB 3; Length 327;  
Best Local Similarity 87.5%; Pred. No. 2.9e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELITE 8  
Db 271 QTVLELITE 278

RESULT 22  
US-10-282-122A-71775

; Sequence 71775, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26

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; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 71775
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Staphylococcus haemolyticus
US-10-282-122A-71775
```

```
Query Match      80.5%; Score 33; DB 4; Length 346;
Best Local Similarity 66.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 9
       :|||||
DB      8 KTKELTEI 16
```

```
RESULT 23
US-10-005-956-22
; Sequence 22, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 500
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-22
```

```
Query Match      80.5%; Score 33; DB 4; Length 500;
Best Local Similarity 87.5%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 8
       :|||||
DB      444 QTVLELTV 451
```

```
RESULT 24
US-10-005-956-24
; Sequence 24, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
```

```

; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 24
; LENGTH: 500
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-24
```

```
Query Match      80.5%; Score 33; DB 4; Length 500;
Best Local Similarity 87.5%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 8
       :|||||
DB      444 QTVLELTV 451
```

```
RESULT 25
US-10-005-956-26
; Sequence 26, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 1579
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 26
; LENGTH: 500
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-005-956-26
```

```
Query Match      80.5%; Score 33; DB 4; Length 500;
Best Local Similarity 87.5%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 8
       :|||||
DB      444 QTVLELTV 451
```

```
RESULT 26
US-10-005-956-28
; Sequence 28, Application US/10005956
; Publication No. US20030113726A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: D0053NP
; CURRENT APPLICATION NUMBER: US/10/005,956
; CURRENT FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/251,015
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: 60/263,678
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/273,037
```

;; PRIOR FILING DATE: 2001-03-02  
;; NUMBER OF SEQ ID NOS: 1579  
;; SOFTWARE: Patentin version 3.0  
;; SEQ ID NO 28  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: homo sapiens  
US-10-005-956-28

Query Match 80.5%; Score 33; DB 4; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 27  
US-10-005-956-30

;; Sequence 30, Application US/10005956  
;; Publication No. US20030113726A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Bristol-Myers Squibb Company  
;; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
;; FILE REFERENCE: D0053NP  
;; CURRENT APPLICATION NUMBER: US/10/005,956  
;; CURRENT FILING DATE: 2001-12-03  
;; PRIOR APPLICATION NUMBER: 60/251,015  
;; PRIOR FILING DATE: 2000-12-04  
;; PRIOR APPLICATION NUMBER: 60/263,678  
;; PRIOR FILING DATE: 2001-01-23  
;; PRIOR APPLICATION NUMBER: 60/273,037  
;; PRIOR FILING DATE: 2001-03-02  
;; NUMBER OF SEQ ID NOS: 1579  
;; SOFTWARE: Patentin version 3.0  
;; SEQ ID NO 30  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: homo sapiens  
US-10-005-956-30

Query Match 80.5%; Score 33; DB 4; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 28  
US-10-005-956-294

;; Sequence 294, Application US/10005956  
;; Publication No. US20030113726A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Bristol-Myers Squibb Company  
;; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
;; FILE REFERENCE: D0053NP  
;; CURRENT APPLICATION NUMBER: US/10/005,956  
;; CURRENT FILING DATE: 2001-12-03  
;; PRIOR APPLICATION NUMBER: 60/251,015  
;; PRIOR FILING DATE: 2000-12-04  
;; PRIOR APPLICATION NUMBER: 60/263,678  
;; PRIOR FILING DATE: 2001-01-23  
;; PRIOR APPLICATION NUMBER: 60/273,037  
;; PRIOR FILING DATE: 2001-03-02  
;; NUMBER OF SEQ ID NOS: 1579  
;; SOFTWARE: Patentin version 3.0  
;; SEQ ID NO 294  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: homo sapiens

;; FEATURE:  
;; NAME/KEY: VARIANT  
;; LOCATION: (56)..(56)  
;; OTHER INFORMATION: wherein Xaa is either "Val" or "Ala".  
;; NAME/KEY: VARIANT  
;; LOCATION: (159)..(159)  
;; OTHER INFORMATION: wherein Xaa is either "Ala" or "Gly".  
;; NAME/KEY: VARIANT  
;; LOCATION: (480)..(480)  
;; OTHER INFORMATION: wherein Xaa is either "Val" or "Met".  
US-10-005-956-294

Query Match 80.5%; Score 33; DB 4; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 29

US-10-989-891-145  
;; Sequence 145, Application US/10989891  
;; Publication No. US2005022027A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Chiang, Lillian W.  
;; APPLICANT: Levin, Margaret  
;; TITLE OF INVENTION: PAIN-RELATED NUCLEIC ACID MOLECULES DERIVED FROM SPINAL NERVE  
;; TITLE OF INVENTION: LIGATION MODEL OF NEUROPATHIC PAIN-SECRETED PROTEINS AND LIGANDS  
;; FILE REFERENCE: 02755/100M94-US1  
;; CURRENT APPLICATION NUMBER: US/10/989,891  
;; CURRENT FILING DATE: 2004-11-12  
;; PRIOR APPLICATION NUMBER: PCT/US04/23166  
;; PRIOR FILING DATE: 2004-07-06  
;; PRIOR APPLICATION NUMBER: 60/485,101  
;; PRIOR FILING DATE: 2003-07-03  
;; NUMBER OF SEQ ID NOS: 168  
;; SOFTWARE: Patentin version 3.2  
;; SEQ ID NO 145  
;; LENGTH: 500  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-10-989-891-145

Query Match 80.5%; Score 33; DB 5; Length 500;  
Best Local Similarity 87.5%; Pred. No. 4.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 444 QTVLELTE 451

RESULT 30  
US-10-264-049-2645

;; Sequence 2645, Application US/10264049  
;; Publication No. US20040005579A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Birse et al.  
;; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
;; FILE REFERENCE: PA133P1  
;; CURRENT APPLICATION NUMBER: US/10/264,049  
;; CURRENT FILING DATE: 2002-10-04  
;; PRIOR APPLICATION NUMBER: PCT/US01/18569  
;; PRIOR FILING DATE: 2001-06-07  
;; PRIOR APPLICATION NUMBER: US 60/209,467  
;; PRIOR FILING DATE: 2000-06-07  
;; NUMBER OF SEQ ID NOS: 4360  
;; SOFTWARE: Patentin Ver. 3.1  
;; SEQ ID NO 2645  
;; LENGTH: 522  
;; TYPE: PRT



ORGANISM: Homo sapiens  
US-10-264-049-2645

Query Match 80.5%; Score 33; DB 4; Length 522;  
Best Local Similarity 87.5%; Pred. No. 5e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
DB 466 QTVLELTE 473

RESULT 31  
US-10-424-599-183425  
; Sequence 183425, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 183425  
; LENGTH: 778  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(778)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_136646C.1.pep  
US-10-424-599-183425

Query Match 80.5%; Score 33; DB 4; Length 778;  
Best Local Similarity 87.5%; Pred. No. 7.7e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
DB 22 KTVLELTE 29

RESULT 32  
US-10-424-599-238328  
; Sequence 238328, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 238328  
; LENGTH: 46  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_57235C.1.pep  
US-10-424-599-238328

Query Match 78.0%; Score 32; DB 4; Length 46;  
Best Local Similarity 87.5%; Pred. No. 52;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
DB 5 KTVLELTE 12

RESULT 33  
US-10-425-115-186757  
; Sequence 186757, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 186757  
; LENGTH: 267  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_101911C.1.pep  
US-10-425-115-186757

Query Match 78.0%; Score 32; DB 4; Length 267;  
Best Local Similarity 77.8%; Pred. No. 3.7e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVLELTEV 9  
DB 183 KTVLELTEV 191

RESULT 34  
US-09-980-217-15  
; Sequence 15, Application US/09980217  
; Publication No. US20040219645A1  
; GENERAL INFORMATION:  
; APPLICANT: Bioclica Technology Limited  
; APPLICANT: Leadley, Peter F  
; APPLICANT: Staunton, James  
; APPLICANT: O'Leary, Marko  
; TITLE OF INVENTION: Polyketides and their synthesis  
; FILE REFERENCE: IS/BP5858469  
; CURRENT APPLICATION NUMBER: US/09/980,217  
; CURRENT FILING DATE: 2002-05-06  
; PRIOR APPLICATION NUMBER: PCT/GB00/02072  
; PRIOR FILING DATE: 2000-05-30  
; PRIOR APPLICATION NUMBER: GB 9912563.5  
; PRIOR FILING DATE: 1999-05-28  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 15  
; LENGTH: 276  
; TYPE: PRT  
; ORGANISM: Streptomyces cinnamonensis  
US-09-980-217-15

Query Match 78.0%; Score 32; DB 3; Length 276;  
Best Local Similarity 75.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 TVLELTEV 9  
DB 212 TVLELTEV 219

## RESULT 35

US-09-864-761-37735  
Sequence 37735, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Rank, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Aecomica-X-1  
CURRENT FILING DATE: 2001-05-23  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/632,366  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: GB 24263,6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 37735  
LENGTH: 398  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AL021808.1  
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.2  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.1  
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2.3  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.3  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.1  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.1  
OTHER INFORMATION: EST HUMAN HIT: A1017213.1, EVALU6 4.00e-27  
OTHER INFORMATION: SWISSPROT HIT: P52591, EVALU6 3.00e-54  
US-09-864-761-37735

Query Match 78.0%; Score 32; DB 3; Length 398;

Best Local Similarity 100.0%; Pred. No. 5, 8e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELT 7  
Db 27 KTVLELT 33

## RESULT 36

US-10-369-493-3073  
Sequence 3073, Application US/10369493  
Publication No. US20030233675A1  
GENERAL INFORMATION:  
APPLICANT: Cao, Yongwei  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Goldman, Barry S.  
APPLICANT: Chen, Xianfeng  
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
FILE REFERENCE: 38-10(52052)B  
CURRENT FILING DATE: 2003-02-28  
PRIOR APPLICATION NUMBER: US 60/360,039  
PRIOR FILING DATE: 2002-02-21  
NUMBER OF SEQ ID NOS: 47374  
SEQ ID NO 3073  
LENGTH: 1046  
TYPE: PRT  
ORGANISM: Neurospora crassa  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1)..(1046)  
OTHER INFORMATION: unsure at all Xaa locations  
US-10-369-493-3073

Query Match 78.0%; Score 32; DB 4; Length 1046;  
Best Local Similarity 75.0%; Pred. No. 1, 7e+03;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TVLELTVEV 9  
Db 433 TVLELTVEV 440

## RESULT 37

US-10-751-845-136  
Sequence 136, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/10/751,845  
PRIOR FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 136  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human Papilloma virus  
US-10-751-845-136

Query Match 75.6%; Score 31; DB 5; Length 10;  
Best Local Similarity 100.0%; Pred. No. 15;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 VLELTV 9  
|||  
Db 1 VLELTV 7

## RESULT 38

US-09-764-869-1229  
; Sequence 1229, Application US/09764869  
; Patent NO. US20020061521A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC007  
; CURRENT APPLICATION NUMBER: US/09/764,869  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 2442  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1229  
; LENGTH: 52  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-869-1229

Query Match 75.6%; Score 31; DB 3; Length 52;  
Best Local Similarity 75.0%; Pred. No. 94;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
|||  
Db 24 KTMLELTV 31

## RESULT 39

US-10-091-504-1229  
; Sequence 1229, Application US/10091504  
; Publication NO. US20030059908A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC007C1  
; CURRENT APPLICATION NUMBER: US/10/091,504  
; CURRENT FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 2442  
; Prior Application removed - See File Wrapper or Palm  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1229  
; LENGTH: 52  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-091-504-1229

Query Match 75.6%; Score 31; DB 4; Length 52;  
Best Local Similarity 75.0%; Pred. No. 94;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
|||  
Db 24 KTMLELTV 31

## RESULT 40

US-10-227-577-1229  
; Sequence 1229, Application US/10227577  
; Publication NO. US20040005555A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC007C2  
; CURRENT APPLICATION NUMBER: US/10/227,577  
; CURRENT FILING DATE: 2002-08-26

PRIOR APPLICATION NUMBER: 10/091,504  
; PRIOR FILING DATE: 2002-03-07  
; PRIOR APPLICATION NUMBER: 09/764,869  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/214,886  
; PRIOR FILING DATE: 2000-06-28  
; PRIOR APPLICATION NUMBER: 60/217,487  
; PRIOR FILING DATE: 2000-07-11  
; PRIOR APPLICATION NUMBER: 60/225,758  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/220,963  
; PRIOR FILING DATE: 2000-07-26  
; PRIOR APPLICATION NUMBER: 60/217,496  
; PRIOR FILING DATE: 2000-07-11  
; PRIOR APPLICATION NUMBER: 60/225,447  
; PRIOR FILING DATE: 2000-08-14  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 2442  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1229  
; LENGTH: 52  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-227-577-1229

Query Match 75.6%; Score 31; DB 4; Length 52;  
Best Local Similarity 75.0%; Pred. No. 94;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
|||  
Db 24 KTMLELTV 31

## RESULT 41

US-10-437-963-204256  
; Sequence 204256, Application US/10437963  
; Publication NO. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 204256  
; LENGTH: 118  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_99361C.1.pcp  
US-10-437-963-204256

Query Match 75.6%; Score 31; DB 4; Length 118;  
Best Local Similarity 75.0%; Pred. No. 2,4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
|||  
Db 14 KTVLELTV 21

```
RESULT 42
US-10-043-487-360
; Sequence 360, Application US/10043487
; Publication No. US20030055220A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; APPLICANT: Pierre, LEGRIN
; TITLE OF INVENTION: Protein-protein interactions between Shigella flexneri polypeptide
; FILE REFERENCE: B4778A
; CURRENT APPLICATION NUMBER: US/10/043,487
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/261,130
; PRIOR FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 561
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 360
; LENGTH: 291
; TYPE: PRT
; ORGANISM: Shigella flexneri
US-10-043-487-360

Query Match
Best Local Similarity 44.4%; Score 31; DB 4; Length 291;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9
Db 19 RTILEMTQI 27

RESULT 43
US-10-369-493-5584
; Sequence 5584, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5584
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-5584

Query Match
Best Local Similarity 75.6%; Score 31; DB 4; Length 343;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9
Db 206 KTVLELTVI 214

RESULT 44
US-10-424-599-177645
; Sequence 177645, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
```

```
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 177645
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(388)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_131429C.1.pep
US-10-424-599-177645

Query Match
Best Local Similarity 75.6%; Score 31; DB 4; Length 388;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TVLELTV 8
Db 153 TVLELTV 159

RESULT 45
US-10-097-559-40
; Sequence 40, Application US/10097559
; Publication No. US20030166255A1
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph
; APPLICANT: Ralscon, Lyle F.
; TITLE OF INVENTION: Cytochrome P450s and Uses Thereof
; FILE REFERENCE: 07678/100003
; CURRENT APPLICATION NUMBER: US/10/097,559
; CURRENT FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: US 60/274,241
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: US 60/275,597
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Mentha spicata
US-10-097-559-40

Query Match
Best Local Similarity 75.6%; Score 31; DB 4; Length 496;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 9
Db 335 KTVLELTVI 343

RESULT 46
US-10-732-923-1085
; Sequence 1085, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeron, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
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; SEQ ID NO 1085
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Mentha spicata
US-10-732-923-1085
```

```
Query Match          75.6%; Score 31; DB 5; Length 496;
Best Local Similarity 66.7%; Pred. No. 1.2e+03;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 9
Db      335 KTVVDLSEV 343
```

```
RESULT 47
US-10-450-763-51933
; Sequence 51933, Application US/10450763
; Publication No. US20050196754A1
GENERAL INFORMATION:
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; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 51933
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (77)..(128)
; OTHER INFORMATION: Domain of Unknown Function 2 domain identified by eMATRIX,
; OTHER INFORMATION: accession number PF00563A, p-value=1.000e-40, raw score of 30.25
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (352)..(502)
; OTHER INFORMATION: Integrate core domain identified by Pfam, accession name rve,
; OTHER INFORMATION: E-value=1.8e-33, Pfam score of 119.8
US-10-450-763-51933
```

```
Query Match          75.6%; Score 31; DB 5; Length 509;
Best Local Similarity 87.5%; Pred. No. 1.2e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 KTVLELTV 8
Db      178 KTVLELTV 185
```

```
RESULT 48
US-10-094-749-2659
; Sequence 2659, Application US/10094749
; Publication No. US20030219741A1
GENERAL INFORMATION:
```

```
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
```

```
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SERI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2659
; LENGTH: 538
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2659
```

```
Query Match          75.6%; Score 31; DB 4; Length 538;
Best Local Similarity 87.5%; Pred. No. 1.3e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 KTVLELTV 8
Db      410 KTVLELTV 417
```

```
RESULT 49
US-10-818-066-34
; Sequence 34, Application US/10818066
; Publication No. US20050074793A1
GENERAL INFORMATION:
; APPLICANT: Protein Design Labs
; APPLICANT: Keith E. Wilson
; APPLICANT: J. Sunil Rao
; APPLICANT: Sandy Markowitz
; APPLICANT: Chascan Chandour
; TITLE OF INVENTION: METASTATIC COLORECTAL CANCER SIGNATURES
; FILE REFERENCE: 05882.0189.NPUS01
; CURRENT APPLICATION NUMBER: US/10/818,066
; CURRENT FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 575
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-818-066-34
```

```
Query Match          75.6%; Score 31; DB 5; Length 575;
Best Local Similarity 66.7%; Pred. No. 1.4e+03;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KTVLELTV 9
Db      111 KTVVDLSEV 119
```

```
RESULT 50
US-10-504-582-152
; Sequence 152, Application US/10504582
; Publication No. US20050176943A1
GENERAL INFORMATION:
; APPLICANT: Yoshitake NISHIMUNE
; APPLICANT: Hiromitsu TANAKA
; APPLICANT: Masami NOZAKI
; TITLE OF INVENTION: Mouse spermatogenesis genes, mutations of male infertility-related
```

; TITLE OF INVENTION: and uses thereof.  
; FILE REFERENCE: 2004-1256A/WMC/00653  
; CURRENT APPLICATION NUMBER: US/10/504,582  
; CURRENT FILING DATE: 2004-08-13  
; PRIOR APPLICATION NUMBER: JP2002-36649  
; PRIOR FILING DATE: 2002-02-14  
; PRIOR APPLICATION NUMBER: JP2002-381241  
; PRIOR FILING DATE: 2002-12-27  
; NUMBER OF SEQ ID NOS: 183  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 152  
; LENGTH: 693  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-504-582-152

Query Match 75.6%; Score 31; DB 5; Length 693;  
Best Local Similarity 66.7%; Pred. No. 1.7e+03;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 KTVLELREV 9  
||: :|||  
Db 253 KTISQLETV 261

Search completed: May 5, 2006, 07:56:04  
Job time : 66.9 secs

GenCore version 5.1.7  
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OM protein - protein search, using bw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds  
(without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-25  
Perfect score: 41  
Sequence: 1 KTVLELYEV 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

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3: /SID55/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
4: /SID55/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
5: /SID55/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
6: /SID55/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
7: /SID55/ptodata/1/pubpaa/US10\_NEW\_PUB.pep1.\*  
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9: /SID55/ptodata/1/pubpaa/US10\_NEW\_PUB.pep1.\*  
10: /SID55/ptodata/1/pubpaa/US11\_NEW\_PUB.pep1.\*  
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12: /SID55/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	41	100.0	158	9	US-10-530-253-15
2	33	80.5	230	11	US-11-096-568A-5439
3	33	80.5	239	11	US-11-096-568A-5438
4	33	80.5	248	11	US-11-096-568A-5437
5	33	80.5	481	11	US-11-045-004-328
6	33	80.5	500	9	US-10-821-234-1458
7	33	80.5	500	11	US-11-090-915-2
8	31	75.6	496	11	US-11-087-099-2202
9	31	75.6	496	11	US-11-188-298-2151
10	31	75.6	711	9	US-10-506-454-111
11	30	73.2	175	9	US-10-330-773-82
12	30	73.2	302	9	US-10-793-626-3062
13	29	70.7	131	9	US-10-793-626-3086
14	29	70.7	180	9	US-11-181-115-1
15	29	70.7	303	10	US-11-181-115-44
16	29	70.7	303	11	US-11-186-284-193
17	29	70.7	304	11	US-11-156-084-291
18	29	70.7	304	11	US-11-156-084-313
19	29	70.7	315	11	US-11-156-084-353
20	29	70.7	315	11	US-11-079-463-7965
21	29	70.7	358	11	US-11-079-463-7965

22	29	70.7	363	9	US-10-055-877-14	Sequence 14, App1
23	29	70.7	613	11	US-11-055-822-110	Sequence 110, App
24	29	70.7	997	11	US-11-080-991-50	Sequence 50, App1
25	29	70.7	999	11	US-11-113-424-36	Sequence 36, App1
26	29	70.7	3389	9	US-10-204-252-10	Sequence 10, App1
27	29	70.7	3391	9	US-10-204-252-6	Sequence 6, App11
28	29	70.7	3391	9	US-10-204-252-12	Sequence 8, App11
29	29	70.7	3391	9	US-10-204-252-12	Sequence 12, App1
30	29	70.7	3391	9	US-10-204-252-14	Sequence 14, App1
31	29	70.7	3391	9	US-10-204-252-16	Sequence 16, App1
32	29	70.7	3391	9	US-10-204-252-28	Sequence 28, App1
33	29	70.7	3402	9	US-10-204-252-18	Sequence 18, App1
34	29	70.7	1188	9	US-10-467-657-390	Sequence 390, App
35	28	68.3	124	11	US-11-079-463-5429	Sequence 5429, App
36	28	68.3	151	11	US-11-096-568A-11451	Sequence 11451, A
37	28	68.3	167	11	US-11-045-004-523	Sequence 523, App
38	28	68.3	192	9	US-10-506-454-263	Sequence 263, App
39	28	68.3	226	11	US-11-096-568A-10973	Sequence 10973, A
40	28	68.3	262	11	US-11-096-568A-31750	Sequence 31750, A
41	28	68.3	284	11	US-11-045-004-549	Sequence 549, App
42	28	68.3	285	11	US-11-096-568A-31749	Sequence 31749, A
43	28	68.3	313	11	US-11-045-004-1210	Sequence 1210, App
44	28	68.3	313	11	US-11-156-084-208	Sequence 208, App
45	28	68.3	315	11	US-11-096-568A-10972	Sequence 10972, A
46	28	68.3	329	11	US-11-096-568A-31748	Sequence 31748, A
47	28	68.3	334	11	US-11-087-099-8595	Sequence 8595, App
48	28	68.3	341	11	US-11-087-099-6306	Sequence 6306, App
49	28	68.3	344	11	US-11-087-099-3605	Sequence 3605, App
50	28	68.3	351	11	US-11-045-004-1301	Sequence 1301, App
51	28	68.3	360	11	US-11-096-568A-31748	Sequence 31748, A
52	28	68.3	377	11	US-11-087-099-2908	Sequence 2908, App
53	28	68.3	439	11	US-11-096-568A-32897	Sequence 32897, A
54	28	68.3	468	10	US-11-242-111-27	Sequence 27, App1
55	28	68.3	582	11	US-11-096-568A-32895	Sequence 32895, A
56	28	68.3	732	11	US-11-096-568A-10532	Sequence 10532, A
57	28	68.3	793	11	US-11-045-004-9665	Sequence 9665, App
58	28	68.3	796	11	US-11-072-512-2293	Sequence 2293, App
59	28	68.3	976	11	US-11-155-888-20	Sequence 20, App1
60	28	68.3	1437	11	US-11-079-463-8094	Sequence 8094, App
61	28	68.3	345	11	US-11-096-568A-32831	Sequence 32831, A
62	27.5	67.1	495	11	US-11-096-568A-32831	Sequence 32831, A
63	27.5	67.1	610	11	US-11-096-568A-32830	Sequence 32830, A
64	27.5	67.1	772	11	US-11-123-896-203	Sequence 203, App
65	27	65.9	113	9	US-10-467-657-7112	Sequence 3712, App
66	27	65.9	127	11	US-11-087-099-1952	Sequence 1952, App
67	27	65.9	152	9	US-10-506-454-636	Sequence 636, App
68	27	65.9	174	11	US-11-087-099-10080	Sequence 10080, A
69	27	65.9	192	11	US-11-079-463-5804	Sequence 5804, App
70	27	65.9	223	9	US-10-506-454-233	Sequence 233, App
71	27	65.9	253	9	US-10-878-556A-95	Sequence 95, App1
72	27	65.9	258	11	US-11-079-463-6766	Sequence 6766, App
73	27	65.9	260	11	US-11-087-099-913	Sequence 913, App
74	27	65.9	287	11	US-11-087-099-8917	Sequence 8917, App
75	27	65.9	291	11	US-11-045-004-643	Sequence 643, App
76	27	65.9	300	11	US-11-188-298-1073	Sequence 1073, App
77	27	65.9	312	11	US-11-096-568A-29415	Sequence 29415, A
78	27	65.9	316	11	US-11-188-298-13434	Sequence 13434, A
79	27	65.9	320	11	US-11-188-298-10798	Sequence 10798, A
80	27	65.9	335	11	US-11-188-298-1109	Sequence 1109, App
81	27	65.9	365	11	US-11-188-298-1109	Sequence 6087, App
82	27	65.9	365	11	US-11-188-298-1109	Sequence 1440, App
83	27	65.9	365	11	US-11-188-298-1109	Sequence 4, App11
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85	27	65.9	374	11	US-11-196-976-4	Sequence 5716, App
86	27	65.9	375	11	US-11-103-957-95	Sequence 7076, App
87	27	65.9	375	11	US-11-103-957-95	Sequence 29414, A
88	27	65.9	378	11	US-11-188-298-5716	Sequence 29414, A
89	27	65.9	386	9	US-10-467-657-7076	Sequence 29414, A
90	27	65.9	398	11	US-11-096-568A-29414	Sequence 29414, A
91	27	65.9	402	11	US-11-096-568A-29750	Sequence 8718, App
92	27	65.9	420	11	US-11-087-099-8718	Sequence 29413, A
93	27	65.9	438	11	US-11-096-568A-29413	
94	27	65.9	438	11	US-11-096-568A-29413	

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96	27	65.9	44.2	11	US-11-096-568A-29749	Sequence 29749, A
97	27	65.9	44.7	9	US-10-467-657-4406	Sequence 4406, Ap
98	27	65.9	45.3	11	US-11-188-298-12441	Sequence 20441, A
99	27	65.9	45.4	11	US-11-188-298-1246	Sequence 1246, Ap
100	27	65.9	45.5	11	US-11-188-298-20522	Sequence 20522, A
101	27	65.9	45.5	11	US-11-188-298-20707	Sequence 20707, A
102	27	65.9	45.5	11	US-11-188-298-21223	Sequence 21223, A
103	27	65.9	45.3	11	US-11-188-298-4041	Sequence 34041, Ap
104	27	65.9	48.3	11	US-11-096-568A-34242	Sequence 34242, A
105	27	65.9	48.3	11	US-11-188-298-21214	Sequence 21214, A
106	27	65.9	48.7	11	US-11-072-175-250	Sequence 250, App
107	27	65.9	49.1	11	US-11-087-099-8792	Sequence 8792, Ap
108	27	65.9	49.2	11	US-11-188-298-15299	Sequence 15299, A
109	27	65.9	49.8	11	US-11-087-099-3874	Sequence 3874, Ap
110	27	65.9	49.8	11	US-11-087-099-6654	Sequence 6654, Ap
111	27	65.9	49.9	11	US-11-087-099-2979	Sequence 2979, Ap
112	27	65.9	50.2	11	US-11-087-099-8667	Sequence 8667, Ap
113	27	65.9	50.2	11	US-11-096-568A-34241	Sequence 34241, A
114	27	65.9	50.3	11	US-11-188-298-16487	Sequence 16487, A
115	27	65.9	50.4	11	US-11-087-099-2131	Sequence 2131, Ap
116	27	65.9	50.9	11	US-11-096-568A-34240	Sequence 34240, A
117	27	65.9	53.1	11	US-11-010-239-32	Sequence 32, Appl
118	27	65.9	53.1	11	US-11-045-004-540	Sequence 540, App
119	27	65.9	53.7	11	US-11-079-463-7370	Sequence 7370, Ap
120	27	65.9	53.8	11	US-11-079-463-6161	Sequence 6161, Ap
121	27	65.9	61.8	9	US-10-858-730-74	Sequence 74, Appl
122	27	65.9	63.0	11	US-11-188-298-16919	Sequence 16919, A
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124	27	65.9	73.0	8	US-10-505-928-841	Sequence 841, Appl
125	27	65.9	121.8	11	US-11-188-298-1733	Sequence 1733, Ap
126	26	63.4	80	11	US-11-096-568A-14067	Sequence 14067, A
127	26	63.4	92	11	US-11-087-099-856	Sequence 856, App
128	26	63.4	107	11	US-11-096-568A-24961	Sequence 24961, A
129	26	63.4	113	11	US-11-096-568A-14066	Sequence 14066, A
130	26	63.4	123	11	US-11-194-246-399	Sequence 399, App
131	26	63.4	130	11	US-11-018-868-7	Sequence 7, Appl
132	26	63.4	131	11	US-11-079-463-7576	Sequence 7576, Ap
133	26	63.4	135	9	US-10-506-454-555	Sequence 555, App
134	26	63.4	135	11	US-11-045-004-2242	Sequence 2242, Ap
135	26	63.4	137	11	US-11-096-568A-10543	Sequence 10543, A
136	26	63.4	156	11	US-11-096-568A-14065	Sequence 14065, A
137	26	63.4	156	11	US-11-096-568A-17932	Sequence 17932, A
138	26	63.4	158	9	US-10-530-253-20	Sequence 20, Appl
139	26	63.4	158	11	US-11-096-568A-17931	Sequence 17931, A
140	26	63.4	161	11	US-11-087-099-7179	Sequence 7179, Ap
141	26	63.4	161	11	US-11-096-568A-10124	Sequence 10124, A
142	26	63.4	163	11	US-11-096-568A-10123	Sequence 10123, A
143	26	63.4	165	11	US-11-087-099-7545	Sequence 7545, Ap
144	26	63.4	168	11	US-11-096-568A-10541	Sequence 10541, A
145	26	63.4	170	11	US-11-087-099-5387	Sequence 5387, Ap
146	26	63.4	172	11	US-11-087-099-9975	Sequence 9975, Ap



241	26	63.4	500	11	US-11-188-298-11759	Sequence 11759, A	314	25	61.0	233	11	US-11-087-099-7318	Sequence 7318, Ap
242	26	63.4	501	11	US-11-188-298-11502	Sequence 11502, A	315	25	61.0	228	11	US-11-188-298-7237	Sequence 7237, Ap
243	26	63.4	503	11	US-11-188-298-11923	Sequence 11923, A	316	25	61.0	266	11	US-11-045-004-132	Sequence 132, App
244	26	63.4	538	11	US-10-703-7998-6	Sequence 6, Appl1	317	25	61.0	269	11	US-11-096-568A-22405	Sequence 22405, A
245	26	63.4	639	11	US-11-232-406A-20	Sequence 20, Appl1	318	25	61.0	278	9	US-10-506-454-526	Sequence 526, App
246	26	63.4	681	11	US-11-079-463-6218	Sequence 6218, Ap	319	25	61.0	280	11	US-11-079-463-6417	Sequence 6417, Ap
247	26	63.4	746	11	US-11-072-175-169	Sequence 169, App	320	25	61.0	291	9	US-10-467-657-5640	Sequence 5640, Ap
248	26	63.4	774	11	US-11-072-512-2554	Sequence 2554, Ap	321	25	61.0	293	11	US-11-188-298-2668	Sequence 2668, Ap
249	26	63.4	803	9	US-10-821-234-1643	Sequence 1643, Ap	322	25	61.0	293	11	US-11-188-298-3120	Sequence 3120, Ap
250	26	63.4	803	9	US-10-962-951-2	Sequence 2, Appl1	323	25	61.0	293	11	US-11-188-298-7172	Sequence 7172, Ap
251	26	63.4	964	11	US-11-072-512-2337	Sequence 2337, Ap	324	25	61.0	294	9	US-11-087-099-16090	Sequence 16090, A
252	26	63.4	980	11	US-11-010-239-127	Sequence 127, App	325	25	61.0	296	9	US-10-467-657-7254	Sequence 7254, Ap
253	26	63.4	1054	11	US-11-079-463-5968	Sequence 5968, Ap	326	25	61.0	296	9	US-10-507-720-36	Sequence 36, Appl1
254	26	63.4	1184	9	US-10-131-826A-412	Sequence 412, App	327	25	61.0	298	11	US-11-087-099-2173	Sequence 2173, Ap
255	26	63.4	1184	9	US-10-973-115B-412	Sequence 412, App	328	25	61.0	300	11	US-11-188-298-6274	Sequence 6274, Ap
256	26	63.4	1184	9	US-10-137-873A-412	Sequence 412, App	329	25	61.0	301	11	US-11-045-004-1760	Sequence 1760, Ap
257	26	63.4	1184	9	US-10-152-370-412	Sequence 412, App	330	25	61.0	303	11	US-11-188-298-7893	Sequence 7893, Ap
258	26	63.4	1184	11	US-11-290-153-412	Sequence 412, App	331	25	61.0	304	9	US-10-793-626-650	Sequence 650, App
259	26	63.4	1189	11	US-11-074-176-134	Sequence 134, App	332	25	61.0	304	9	US-10-793-626-1716	Sequence 1716, Ap
260	26	63.4	1442	9	US-10-793-626-2052	Sequence 2052, Ap	333	25	61.0	308	11	US-11-055-822-822	Sequence 822, App
261	26	63.4	1444	11	US-11-045-004-1327	Sequence 1327, Ap	334	25	61.0	309	11	US-11-087-099-8647	Sequence 8647, Ap
262	26	63.4	1728	11	US-11-019-711-72	Sequence 72, Appl1	335	25	61.0	309	11	US-11-087-099-8977	Sequence 8977, Ap
263	26	63.4	1928	9	US-10-480-330-30	Sequence 30, Appl1	336	25	61.0	311	11	US-11-045-004-1737	Sequence 1737, Ap
264	26	63.4	1965	9	US-10-480-330-4	Sequence 40, Appl1	337	25	61.0	311	11	US-11-156-084-211	Sequence 211, App
265	26	63.4	1966	9	US-10-480-330-6	Sequence 2, Appl1	338	25	61.0	313	9	US-10-873-528-73	Sequence 73, Appl1
266	26	63.4	1966	9	US-10-480-330-8	Sequence 6, Appl1	339	25	61.0	315	11	US-11-045-004-489	Sequence 489, App
267	26	63.4	1966	9	US-10-480-330-10	Sequence 10, Appl1	340	25	61.0	316	11	US-11-188-298-19113	Sequence 19113, A
268	26	63.4	1966	9	US-10-480-330-12	Sequence 12, Appl1	341	25	61.0	318	11	US-11-087-099-2984	Sequence 2984, Ap
269	26	63.4	1966	9	US-10-480-330-14	Sequence 14, Appl1	342	25	61.0	318	11	US-11-087-099-3001	Sequence 3001, Ap
270	26	63.4	1966	9	US-10-480-330-16	Sequence 16, Appl1	343	25	61.0	318	11	US-11-087-099-9417	Sequence 9417, Ap
271	26	63.4	1966	9	US-10-480-330-18	Sequence 18, Appl1	344	25	61.0	332	9	US-10-506-454-1272	Sequence 1272, Ap
272	26	63.4	1966	9	US-10-480-330-20	Sequence 20, Appl1	345	25	61.0	335	11	US-11-087-099-4055	Sequence 4059, Ap
273	26	63.4	1966	9	US-10-480-330-22	Sequence 22, Appl1	346	25	61.0	335	11	US-11-087-099-8353	Sequence 8353, Ap
274	26	63.4	1966	9	US-10-480-330-24	Sequence 24, App	347	25	61.0	335	11	US-11-087-099-9182	Sequence 9182, Ap
275	26	63.4	1966	9	US-10-480-330-26	Sequence 26, Appl1	348	25	61.0	336	11	US-11-087-099-7384	Sequence 7384, Ap
276	26	63.4	1966	9	US-10-480-330-28	Sequence 28, Appl1	349	25	61.0	336	11	US-11-087-099-11543	Sequence 11543, A
277	26	63.4	1966	11	US-11-013-759-3	Sequence 3, Appl1	350	25	61.0	337	11	US-11-087-099-7137	Sequence 7137, Ap
278	26	63.4	1992	11	US-11-013-759-13	Sequence 13, Appl1	351	25	61.0	350	9	US-10-533-811-31	Sequence 31, Appl1
279	26	63.4	2004	9	US-10-469-469-250	Sequence 250, App	352	25	61.0	350	11	US-11-188-298-3903	Sequence 3903, Ap
280	26	63.4	2047	11	US-11-013-759-4	Sequence 4, Appl1	353	25	61.0	353	11	US-11-096-568A-3307	Sequence 33207, A
281	26	63.4	2047	11	US-11-013-759-7	Sequence 7, Appl1	354	25	61.0	354	11	US-11-096-568A-22404	Sequence 22404, A
282	26	63.4	2047	11	US-11-013-759-9	Sequence 9, Appl1	355	25	61.0	355	11	US-11-079-463-7959	Sequence 7959, Ap
283	25.5	62.2	317	11	US-11-045-004-332	Sequence 332, App	356	25	61.0	355	11	US-11-045-004-2154	Sequence 2154, Ap
284	25	61.0	41	9	US-10-916-827-28	Sequence 28, App	357	25	61.0	356	11	US-11-188-298-16491	Sequence 16491, A
285	25	61.0	41	9	US-10-916-827-44	Sequence 44, App	358	25	61.0	356	11	US-11-096-568A-33206	Sequence 33206, A
286	25	61.0	49	9	US-10-467-657-8236	Sequence 8236, Ap	359	25	61.0	361	11	US-11-096-568A-5564	Sequence 5564, Ap
287	25	61.0	74	9	US-10-475-075-842	Sequence 842, App	360	25	61.0	367	11	US-11-219-282-21	Sequence 21, Appl1
288	25	61.0	77	11	US-11-079-463-8617	Sequence 8617, Ap	361	25	61.0	367	11	US-11-096-568A-33205	Sequence 33205, A
289	25	61.0	79	9	US-10-506-454-1245	Sequence 1245, Ap	362	25	61.0	370	11	US-11-129-143-68	Sequence 68, Appl1
290	25	61.0	95	11	US-11-096-568A-796	Sequence 796, App	363	25	61.0	371	11	US-11-129-143-69	Sequence 69, Appl1
291	25	61.0	96	11	US-11-087-099-10393	Sequence 10393, A	364	25	61.0	372	11	US-11-096-568A-5563	Sequence 5563, Ap
292	25	61.0	114	9	US-10-467-657-4450	Sequence 4450, Ap	365	25	61.0	380	11	US-11-087-099-5374	Sequence 5374, Ap
293	25	61.0	114	9	US-10-467-657-8412	Sequence 8412, Ap	366	25	61.0	388	11	US-11-087-099-4330	Sequence 4330, Ap
294	25	61.0	124	11	US-11-096-568A-795	Sequence 795, App	367	25	61.0	390	9	US-10-485-517-235	Sequence 235, App
295	25	61.0	124	11	US-11-079-463-8212	Sequence 8212, Ap	368	25	61.0	396	9	US-10-501-035-275	Sequence 275, App
296	25	61.0	128	11	US-11-098-686-11175	Sequence 11175, A	369	25	61.0	396	11	US-11-109-159-807	Sequence 3807, Ap
297	25	61.0	138	11	US-11-096-568A-794	Sequence 794, App	370	25	61.0	396	11	US-11-087-099-9086	Sequence 9086, Ap
298	25	61.0	148	11	US-11-188-298-17581	Sequence 17581, A	371	25	61.0	400	11	US-11-079-463-7840	Sequence 7840, Ap
299	25	61.0	150	11	US-11-152-497-4	Sequence 4, Appl1	372	25	61.0	405	11	US-11-096-568A-1768	Sequence 1768, Ap
300	25	61.0	157	11	US-11-044-285-5	Sequence 5, Appl1	373	25	61.0	406	11	US-11-096-568A-1767	Sequence 1767, Ap
301	25	61.0	162	11	US-11-069-642-6	Sequence 6, Appl1	374	25	61.0	406	11	US-11-079-463-5667	Sequence 5667, Ap
302	25	61.0	166	11	US-11-176-830-1090	Sequence 1090, Ap	375	25	61.0	409	11	US-11-188-298-18864	Sequence 18864, A
303	25	61.0	166	11	US-11-196-067-286	Sequence 286, App	376	25	61.0	409	11	US-11-096-568A-33433	Sequence 33433, A
304	25	61.0	181	11	US-11-188-298-10408	Sequence 10408, A	377	25	61.0	409	11	US-11-096-568A-33432	Sequence 33432, A
305	25	61.0	202	11	US-11-172-740-350	Sequence 550, App	378	25	61.0	410	11	US-11-188-298-16523	Sequence 16523, A
306	25	61.0	205	11	US-11-096-568A-22406	Sequence 22406, A	379	25	61.0	419	11	US-11-188-298-1766	Sequence 1766, Ap
307	25	61.0	212	9	US-10-506-454-635	Sequence 635, App	380	25	61.0	425	11	US-11-096-568A-1766	Sequence 1766, Ap
308	25	61.0	216	11	US-11-188-298-4415	Sequence 4415, Ap	381	25	61.0	426	11	US-11-188-298-4607	Sequence 4607, Ap
309	25	61.0	232	9	US-10-106-454-1672	Sequence 1672, Ap	382	25	61.0	427	11	US-11-096-568A-33431	Sequence 33431, A
310	25	61.0	233	11	US-11-076-164-13	Sequence 13, Appl1	383	25	61.0	427	11	US-11-188-298-1543	Sequence 1543, Ap
311	25	61.0	233	11	US-11-087-099-3052	Sequence 3052, Ap	384	25	61.0	427	11	US-11-188-298-17659	Sequence 17659, Ap
312	25	61.0	233	11	US-11-087-099-6395	Sequence 6395, Ap	385	25	61.0	430	11	US-11-188-298-3939	Sequence 3939, Ap
313	25	61.0	233	11	US-11-087-099-6579	Sequence 6579, Ap	386	25	61.0	433	11	US-11-079-463-9953	Sequence 9953, Ap

387	25	61.0	434	11	US-11-096-568A-4749	Sequence 4749, Ap	460	25	61.0	1410	9	US-10-878-556A-136	Sequence 136, App
388	25	61.0	447	9	US-10-793-626-9900	Sequence 2900, Ap	461	25	61.0	1432	10	US-11-301-924-18	Sequence 18, App1
389	25	61.0	450	9	US-10-793-626-1226	Sequence 3226, Ap	462	25	61.0	1436	9	US-10-995-561-531	Sequence 531, App
390	25	61.0	452	11	US-11-096-568A-4748	Sequence 4748, Ap	463	25	61.0	1544	11	US-11-050-857-943	Sequence 943, App
391	25	61.0	463	9	US-10-755-092-85	Sequence 25, App1	464	25	61.0	1566	9	US-10-821-234-901	Sequence 901, App
392	25	61.0	464	11	US-11-096-568A-4747	Sequence 4747, Ap	465	25	61.0	1655	11	US-11-050-857-942	Sequence 942, App
393	25	61.0	465	11	US-11-219-995-6	Sequence 3, App1	466	25	61.0	1658	11	US-11-050-857-935	Sequence 935, App
394	25	61.0	465	11	US-11-152-366-33	Sequence 33, App1	467	25	61.0	1673	11	US-11-050-857-936	Sequence 936, App
395	25	61.0	468	11	US-11-087-099-4058	Sequence 4058, Ap	468	25	61.0	1730	11	US-11-050-857-946	Sequence 946, App
396	25	61.0	469	11	US-11-045-004-1748	Sequence 1748, Ap	469	25	61.0	1822	8	US-10-505-928-700	Sequence 700, App
397	25	61.0	480	11	US-11-188-298-16081	Sequence 16081, A	470	25	61.0	1822	11	US-11-169-041-153	Sequence 193, App
398	25	61.0	481	11	US-11-227-177-1	Sequence 1, App1	471	25	61.0	1837	11	US-11-050-857-940	Sequence 940, App
399	25	61.0	485	11	US-11-264-096-1806	Sequence 1806, Ap	472	25	61.0	1874	9	US-10-821-234-1182	Sequence 1182, Ap
400	25	61.0	491	9	US-10-986-405-193	Sequence 193, App	473	25	61.0	1912	11	US-11-288-493-64	Sequence 64, App1
401	25	61.0	501	11	US-11-188-298-5829	Sequence 5829, Ap	474	25	61.0	1928	11	US-11-050-857-939	Sequence 939, App
402	25	61.0	503	11	US-11-188-298-13676	Sequence 13676, A	475	25	61.0	2055	11	US-11-050-857-945	Sequence 945, App
403	25	61.0	503	11	US-11-188-298-17847	Sequence 17847, A	476	25	61.0	2067	11	US-11-050-857-944	Sequence 944, App
404	25	61.0	515	11	US-11-188-298-939	Sequence 939, App	477	25	61.0	2091	11	US-11-050-857-941	Sequence 941, App
405	25	61.0	517	11	US-11-087-099-5113	Sequence 5113, Ap	478	25	61.0	2110	11	US-11-050-857-937	Sequence 937, App
406	25	61.0	535	11	US-11-188-298-1382	Sequence 1382, Ap	479	25	61.0	2110	11	US-11-050-857-938	Sequence 938, App
407	25	61.0	539	9	US-10-506-43A-36	Sequence 36, App1	480	25	61.0	2201	11	US-11-050-857-933	Sequence 933, App
408	25	61.0	556	9	US-10-995-561-766	Sequence 766, App	481	25	61.0	2201	11	US-11-050-857-1150	Sequence 1150, Ap
409	25	61.0	556	9	US-10-995-561-767	Sequence 767, App	482	25	61.0	2233	11	US-11-050-857-934	Sequence 934, App
410	25	61.0	556	11	US-11-124-367A-427	Sequence 427, App	483	25	61.0	3659	11	US-11-075-185-4	Sequence 4, App1
411	25	61.0	556	11	US-11-124-367A-428	Sequence 428, App	484	25	59.8	408	11	US-11-098-686-10339	Sequence 10339, A
412	25	61.0	556	11	US-11-194-991-13	Sequence 13, App1	485	24	58.5	12	9	US-10-510-246-11	Sequence 11, App1
413	25	61.0	556	11	US-11-194-991-14	Sequence 14, App1	486	24	58.5	25	11	US-11-149-737-8	Sequence 8, App1
414	25	61.0	561	9	US-10-506-43A-34	Sequence 34, App1	487	24	58.5	45	9	US-10-957-687B-86	Sequence 86, App1
415	25	61.0	568	9	US-10-506-43A-30	Sequence 30, App1	488	24	58.5	64	11	US-11-087-099-12090	Sequence 12090, A
416	25	61.0	569	9	US-10-506-43A-35	Sequence 35, App1	489	24	58.5	83	9	US-10-934-944-349	Sequence 349, App
417	25	61.0	569	11	US-11-188-298-21293	Sequence 21293, A	490	24	58.5	83	9	US-10-934-944-350	Sequence 350, App
418	25	61.0	574	11	US-11-024-959-300	Sequence 300, App	491	24	58.5	83	9	US-10-934-944-351	Sequence 351, App
419	25	61.0	575	11	US-11-188-298-13893	Sequence 13893, A	492	24	58.5	83	9	US-10-934-944-352	Sequence 352, App
420	25	61.0	587	11	US-11-079-463-8026	Sequence 8026, Ap	493	24	58.5	83	11	US-11-116-881A-2246	Sequence 2246, Ap
421	25	61.0	598	11	US-11-055-822-820	Sequence 820, App	494	24	58.5	83	11	US-11-116-881A-2247	Sequence 2247, Ap
422	25	61.0	601	9	US-10-944-272-3	Sequence 3, App1	495	24	58.5	83	11	US-11-116-881A-2248	Sequence 2248, Ap
423	25	61.0	601	11	US-11-096-191-720	Sequence 720, App	496	24	58.5	83	11	US-11-116-881A-2249	Sequence 2249, Ap
424	25	61.0	624	11	US-11-079-463-7504	Sequence 7504, Ap	497	24	58.5	84	11	US-11-116-881A-526	Sequence 526, App
425	25	61.0	625	11	US-11-055-822-522	Sequence 522, App	498	24	58.5	88	11	US-11-045-004-2186	Sequence 2186, Ap
426	25	61.0	628	11	US-11-079-463-8053	Sequence 8053, Ap	499	24	58.5	96	11	US-11-053-076-186	Sequence 186, App
427	25	61.0	651	11	US-11-098-686-11428	Sequence 11428, A	500	24	58.5	104	11	US-11-053-076-155	Sequence 155, App
428	25	61.0	654	11	US-11-169-041-186	Sequence 186, App	501	24	58.5	118	11	US-11-264-096-1578	Sequence 1578, App
429	25	61.0	660	9	US-10-131-826A-350	Sequence 350, App	502	24	58.5	127	11	US-11-045-004-2477	Sequence 2477, Ap
430	25	61.0	660	9	US-10-973-115B-350	Sequence 350, App	503	24	58.5	138	11	US-11-188-298-17973	Sequence 17973, A
431	25	61.0	660	9	US-10-137-873A-350	Sequence 350, App	504	24	58.5	142	9	US-10-986-405-221	Sequence 221, App
432	25	61.0	660	9	US-10-152-370-350	Sequence 350, App	505	24	58.5	150	11	US-11-087-099-11134	Sequence 11134, A
433	25	61.0	660	11	US-11-290-153-350	Sequence 350, App	506	24	58.5	153	11	US-11-045-004-413	Sequence 413, App
434	25	61.0	689	11	US-11-096-568A-12831	Sequence 12831, A	507	24	58.5	155	9	US-10-793-626-3088	Sequence 3088, App
435	25	61.0	692	11	US-11-188-298-9802	Sequence 9802, Ap	508	24	58.5	159	11	US-11-079-463-5416	Sequence 5416, App
436	25	61.0	709	9	US-10-505-928-351	Sequence 351, App	509	24	58.5	165	9	US-10-467-657-7992	Sequence 7992, Ap
437	25	61.0	709	9	US-10-469-469-329	Sequence 329, App	510	24	58.5	165	11	US-10-467-657-7992	Sequence 12858, A
438	25	61.0	745	11	US-11-096-568A-12830	Sequence 12830, A	511	24	58.5	165	11	US-11-096-568A-12898	Sequence 12897, A
439	25	61.0	779	11	US-11-045-004-1137	Sequence 1137, Ap	512	24	58.5	168	11	US-11-096-568A-12897	Sequence 11282, A
440	25	61.0	810	11	US-11-079-463-9341	Sequence 9341, Ap	513	24	58.5	171	11	US-11-188-298-11282	Sequence 9804, Ap
441	25	61.0	829	11	US-11-194-246-296	Sequence 296, App	514	24	58.5	174	11	US-11-087-099-9804	Sequence 9804, Ap
442	25	61.0	840	9	US-10-645-441-1	Sequence 1, App1	515	24	58.5	176	11	US-11-126-023-27	Sequence 2, App1
443	25	61.0	840	9	US-10-725-475-16	Sequence 16, App1	516	24	58.5	178	11	US-11-188-298-1524	Sequence 1624, Ap
444	25	61.0	842	9	US-10-645-441-2	Sequence 2, App1	517	24	58.5	183	11	US-11-079-463-7409	Sequence 7409, Ap
445	25	61.0	855	9	US-10-714-995-14	Sequence 14, App1	518	24	58.5	186	9	US-10-793-626-3004	Sequence 3004, Ap
446	25	61.0	855	11	US-11-050-857-950	Sequence 950, App	519	24	58.5	188	9	US-10-467-657-920	Sequence 920, App
447	25	61.0	977	11	US-11-072-512-2552	Sequence 2552, Ap	520	24	58.5	196	11	US-11-093-746A-2	Sequence 2, App1
448	25	61.0	989	11	US-11-079-463-7130	Sequence 7130, Ap	521	24	58.5	196	11	US-11-072-512-2371	Sequence 2371, Ap
449	25	61.0	993	11	US-11-087-099-707	Sequence 707, App	522	24	58.5	200	9	US-10-506-454-875	Sequence 875, App
450	25	61.0	1022	11	US-11-186-284-163	Sequence 163, App	523	24	58.5	203	9	US-10-506-454-801	Sequence 801, App
451	25	61.0	1022	11	US-11-186-284-163	Sequence 244, App	524	24	58.5	204	11	US-11-087-099-6712	Sequence 6712, Ap
452	25	61.0	1083	11	US-11-072-175-244	Sequence 949, App	525	24	58.5	205	11	US-11-127-623	Sequence 3, App1
453	25	61.0	1167	9	US-11-050-857-949	Sequence 47, App1	526	24	58.5	206	11	US-11-188-298-10048	Sequence 10048, A
454	25	61.0	1254	9	US-10-601-368-18	Sequence 18, App1	527	24	58.5	206	11	US-11-188-298-18342	Sequence 18342, A
455	25	61.0	1254	11	US-10-528-031-47	Sequence 948, App	528	24	58.5	209	9	US-10-986-405-347	Sequence 347, App
456	25	61.0	1340	11	US-11-098-686-11135	Sequence 11135, A	529	24	58.5	209	9	US-10-986-405-347	Sequence 15966, A
457	25	61.0	1346	11	US-11-050-857-947	Sequence 947, App	530	24	58.5	212	11	US-11-096-568A-15966	Sequence 11211, A
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459	25	61.0	1406	9	US-10-995-561-530	Sequence 530, App	532	24	58.5	216	9	US-10-883-512-91	Sequence 91, App1

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535	24	58.5	232	11	US-11-096-568A-23415	Sequence 23415, A	608	24	58.5	357	11	US-11-264-728-44	Sequence 44, Appl
536	24	58.5	233	11	US-11-096-568A-10748	Sequence 10748, A	609	24	58.5	357	11	US-11-188-298-814	Sequence 814, Appl
537	24	58.5	234	9	US-10-491-468-22	Sequence 22, Appl	610	24	58.5	359	11	US-11-012-762-58	Sequence 58, Appl
538	24	58.5	240	11	US-11-212-443-166	Sequence 166, App	611	24	58.5	361	11	US-11-012-762-42	Sequence 42, Appl
539	24	58.5	240	11	US-11-096-568A-15109	Sequence 15109, A	612	24	58.5	364	11	US-11-012-762-38	Sequence 38, Appl
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543	24	58.5	250	11	US-11-087-099-10551	Sequence 10551, A	616	24	58.5	367	11	US-11-117-169-12	Sequence 12, Appl
544	24	58.5	251	9	US-10-644-807-309	Sequence 309, App	617	24	58.5	373	11	US-11-045-004-213	Sequence 213, App
545	24	58.5	251	11	US-11-087-099-1098	Sequence 1098, Ap	618	24	58.5	374	11	US-11-045-004-895	Sequence 895, App
546	24	58.5	252	11	US-11-096-568A-15108	Sequence 15108, A	619	24	58.5	376	11	US-11-012-762-10	Sequence 10, Appl
547	24	58.5	255	11	US-11-188-298-19575	Sequence 19575, A	620	24	58.5	376	11	US-11-012-762-16	Sequence 16, Appl
548	24	58.5	256	11	US-11-087-099-1329	Sequence 1329, Ap	621	24	58.5	376	11	US-11-012-762-18	Sequence 18, Appl
549	24	58.5	256	11	US-11-087-099-7537	Sequence 7537, Ap	622	24	58.5	376	11	US-11-012-762-20	Sequence 20, Appl
550	24	58.5	256	11	US-11-087-099-5252	Sequence 5252, Ap	623	24	58.5	376	11	US-11-012-762-22	Sequence 22, Appl
551	24	58.5	256	11	US-11-087-099-124	Sequence 124, App	624	24	58.5	376	11	US-11-012-762-24	Sequence 24, Appl
552	24	58.5	265	11	US-11-077-619-124	Sequence 619, App	625	24	58.5	376	11	US-11-012-762-40	Sequence 40, Appl
553	24	58.5	265	11	US-11-077-619-124	Sequence 124, App	626	24	58.5	380	11	US-11-072-512-2623	Sequence 2623, Ap
554	24	58.5	265	11	US-11-087-099-99-1329	Sequence 99, App	627	24	58.5	380	11	US-11-188-298-1262	Sequence 1262, Ap
555	24	58.5	265	11	US-11-087-099-7537	Sequence 7537, Ap	628	24	58.5	383	9	US-10-485-517-356	Sequence 356, App
556	24	58.5	265	11	US-11-087-099-7537	Sequence 7537, Ap	629	24	58.5	384	8	US-10-505-928-395	Sequence 395, App
557	24	58.5	267	11	US-11-087-099-5252	Sequence 5252, Ap	630	24	58.5	385	9	US-10-467-657-112	Sequence 312, App
558	24	58.5	270	9	US-10-644-807-404	Sequence 404, App	631	24	58.5	385	9	US-10-467-657-1676	Sequence 3676, Ap
559	24	58.5	276	11	US-11-087-099-2506	Sequence 2506, Ap	632	24	58.5	386	11	US-11-012-762-44	Sequence 44, Appl
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561	24	58.5	277	11	US-11-096-568A-26243	Sequence 26243, A	634	24	58.5	387	11	US-11-096-568A-13773	Sequence 13773, A
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564	24	58.5	281	11	US-11-093-944-387	Sequence 387, App	637	24	58.5	392	11	US-11-096-568A-20642	Sequence 20642, A
565	24	58.5	281	11	US-11-116-881A-2298	Sequence 2298, Ap	638	24	58.5	393	11	US-11-087-099-3982	Sequence 3982, Ap
566	24	58.5	282	11	US-11-096-568A-10623	Sequence 10623, A	639	24	58.5	393	11	US-11-188-298-7852	Sequence 7822, Ap
567	24	58.5	286	11	US-11-096-568A-23414	Sequence 23414, A	640	24	58.5	394	11	US-11-087-099-3057	Sequence 3057, Ap
568	24	58.5	288	11	US-11-096-568A-10622	Sequence 10622, A	641	24	58.5	394	11	US-11-096-568A-8620	Sequence 8620, Ap
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571	24	58.5	296	11	US-11-096-568A-10747	Sequence 10747, A	644	24	58.5	398	11	US-11-012-762-74	Sequence 74, Appl
572	24	58.5	296	11	US-11-045-004-1949	Sequence 1949, Ap	645	24	58.5	398	11	US-11-096-568A-8619	Sequence 8619, Ap
573	24	58.5	297	11	US-11-138-949-6	Sequence 6, Appl	646	24	58.5	399	11	US-11-096-568A-26381	Sequence 26381, A
574	24	58.5	297	11	US-11-138-949-9	Sequence 9, Appl	647	24	58.5	400	11	US-11-117-169-2	Sequence 2, Appl
575	24	58.5	302	7	US-09-978-360A-407	Sequence 407, App	648	24	58.5	400	11	US-11-117-169-4	Sequence 4, Appl
576	24	58.5	303	11	US-11-045-004-1069	Sequence 1069, Ap	649	24	58.5	411	9	US-10-506-454-1621	Sequence 1621, Ap
577	24	58.5	310	11	US-11-096-568A-26383	Sequence 26383, A	650	24	58.5	413	11	US-11-188-298-14626	Sequence 14626, A
578	24	58.5	313	11	US-11-156-084-352	Sequence 352, App	651	24	58.5	414	11	US-11-087-099-11780	Sequence 11780, A
579	24	58.5	315	11	US-11-087-099-9820	Sequence 9820, Ap	652	24	58.5	417	11	US-11-096-568A-20641	Sequence 20641, A
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582	24	58.5	319	11	US-11-087-099-2924	Sequence 2924, Ap	655	24	58.5	427	11	US-11-188-298-8095	Sequence 8095, Ap
583	24	58.5	324	11	US-11-087-099-4100	Sequence 4100, Ap	656	24	58.5	428	9	US-10-644-807-219	Sequence 219, App
584	24	58.5	324	11	US-11-087-099-10680	Sequence 10680, A	657	24	58.5	428	11	US-11-127-422-2	Sequence 2, Appl
585	24	58.5	325	11	US-11-087-099-5826	Sequence 5826, Ap	658	24	58.5	428	11	US-11-127-422-2	Sequence 2, Appl
586	24	58.5	325	11	US-11-087-099-9929	Sequence 9929, Ap	659	24	58.5	429	11	US-11-188-298-8380	Sequence 8380, Ap
587	24	58.5	329	11	US-11-087-099-6390	Sequence 6390, Ap	660	24	58.5	429	11	US-11-188-298-8380	Sequence 8380, Ap
588	24	58.5	331	9	US-10-793-626-3256	Sequence 3256, Ap	661	24	58.5	429	11	US-11-188-298-20228	Sequence 20228, A
589	24	58.5	331	11	US-11-087-099-8831	Sequence 8831, Ap	662	24	58.5	434	9	US-11-188-298-21735	Sequence 21735, A
590	24	58.5	332	11	US-11-045-004-1157	Sequence 1157, Ap	663	24	58.5	434	9	US-10-915-002-216	Sequence 216, App
591	24	58.5	335	9	US-10-506-454-831	Sequence 831, App	664	24	58.5	437	11	US-11-194-246-124	Sequence 324, App
592	24	58.5	335	9	US-11-079-463-7085	Sequence 7085, Ap	665	24	58.5	437	11	US-11-096-568A-20640	Sequence 20640, A
593	24	58.5	336	9	US-10-506-454-1561	Sequence 1561, Ap	666	24	58.5	439	11	US-10-544-501-2	Sequence 2, Appl
594	24	58.5	336	11	US-11-087-099-3797	Sequence 3797, Ap	667	24	58.5	441	11	US-11-045-004-1338	Sequence 1338, Ap
595	24	58.5	338	9	US-10-501-035-264	Sequence 264, App	668	24	58.5	449	11	US-11-079-463-1270	Sequence 1270, Ap
596	24	58.5	338	9	US-10-506-454-611	Sequence 611, App	669	24	58.5	454	9	US-10-517-702-1	Sequence 1, Appl
597	24	58.5	338	11	US-11-087-099-8709	Sequence 8709, Ap	670	24	58.5	455	11	US-11-184-837-1	Sequence 1, Appl
598	24	58.5	342	11	US-11-096-568A-10621	Sequence 10621, A	671	24	58.5	455	9	US-10-847-867-1	Sequence 28, Appl
599	24	58.5	344	11	US-11-052-554A-43	Sequence 43, Appl	672	24	58.5	455	9	US-10-847-867-28	Sequence 28, Appl
600	24	58.5	349	11	US-11-079-463-6050	Sequence 6050, Ap	673	24	58.5	455	9	US-10-847-867-29	Sequence 29, Appl
601	24	58.5	353	11	US-11-012-762-50	Sequence 50, Appl	674	24	58.5	455	9	US-10-847-867-30	Sequence 30, Appl
602	24	58.5	353	11	US-11-087-099-6584	Sequence 6584, Ap	675	24	58.5	455	9	US-10-847-867-31	Sequence 31, Appl
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605	24	58.5	354	11	US-11-079-463-6810	Sequence 6810, Ap	678	24	58.5	455	9	US-10-847-867-34	Sequence 34, Appl

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680	24	58.5	457	11	US-11-194-246-326	Sequence 326, App	753	24	58.5	601	11	US-11-024-959-295	Sequence 295, App
681	24	58.5	465	11	US-11-264-096-310	Sequence 310, App	754	24	58.5	611	11	US-11-188-298-14425	Sequence 14425, A
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683	24	58.5	470	9	US-10-506-454-1047	Sequence 1047, Ap	756	24	58.5	620	11	US-11-188-298-17673	Sequence 17673, A
684	24	58.5	477	11	US-11-079-463-5771	Sequence 5771, Ap	757	24	58.5	625	9	US-10-793-626-2464	Sequence 2464, Ap
685	24	58.5	480	9	US-10-847-867-3	Sequence 3, Appl	758	24	58.5	632	9	US-10-063-703-430	Sequence 40, Appl
686	24	58.5	481	11	US-11-087-099-7519	Sequence 7519, Ap	759	24	58.5	632	9	US-10-506-454-719	Sequence 719, App
687	24	58.5	481	11	US-11-188-298-1371	Sequence 1371, Ap	760	24	58.5	632	9	US-10-194-487-166	Sequence 166, App
688	24	58.5	482	11	US-11-096-568A-8410	Sequence 8410, Ap	761	24	58.5	632	9	US-10-195-883-166	Sequence 166, App
689	24	58.5	486	11	US-11-188-298-3395	Sequence 3395, Ap	762	24	58.5	632	9	US-10-195-888-166	Sequence 166, App
690	24	58.5	487	11	US-11-087-099-3264	Sequence 3264, Ap	763	24	58.5	632	9	US-10-195-889-166	Sequence 166, App
691	24	58.5	489	11	US-11-098-686-10161	Sequence 10161, A	764	24	58.5	632	11	US-11-102-240-40	Sequence 40, Appl
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985 23 56.1 104 11 US-11-064-774A-683 Sequence 683, App
986 23 56.1 104 11 US-11-064-774A-1073 Sequence 1073, App
987 23 56.1 104 11 US-11-064-774A-1075 Sequence 1075, App
988 23 56.1 104 11 US-11-064-774A-1081 Sequence 1081, App
989 23 56.1 104 11 US-11-064-774A-1083 Sequence 1083, App
990 23 56.1 104 11 US-11-064-774A-1089 Sequence 1089, App
991 23 56.1 104 11 US-11-064-774A-1091 Sequence 1091, App
992 23 56.1 104 11 US-11-064-774A-1097 Sequence 1097, App
993 23 56.1 104 11 US-11-064-774A-1099 Sequence 1099, App
994 23 56.1 104 11 US-11-064-774A-1105 Sequence 1105, App
995 23 56.1 104 11 US-11-064-774A-1107 Sequence 1107, App
996 23 56.1 104 11 US-11-064-774A-1113 Sequence 1113, App
997 23 56.1 104 11 US-11-064-774A-1115 Sequence 1115, App
998 23 56.1 104 11 US-11-064-774A-1121 Sequence 1121, App
999 23 56.1 104 11 US-11-064-774A-1123 Sequence 1123, App
1000 23 56.1 104 11 US-11-064-774A-1129 Sequence 1129, App
```

## ALIGNMENTS

```
RESULT 1
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casabetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McShiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15
```

```
Query Match 100.0%; Score 41; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KTVLELTV 9
Db 36 KTVLELTV 44
```

```
RESULT 2
US-11-096-568A-5439
; Sequence 5439, Application US/11096568A
; Publication No. US20060048240A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5439
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(230)
; OTHER INFORMATION: Ceres Seq. ID no. 14309552
US-11-096-568A-5439
```

```
Query Match 80.5%; Score 33; DB 11; Length 230;
Best Local Similarity 87.5%; Pred. No. 15;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KTVLELTV 8
Db 135 KTVLELTV 142
```

```
RESULT 3
US-11-096-568A-5438
; Sequence 5438, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5438
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(239)
; OTHER INFORMATION: Ceres Seq. ID no. 14309551
US-11-096-568A-5438
```

```
Query Match 80.5%; Score 33; DB 11; Length 239;
Best Local Similarity 87.5%; Pred. No. 15;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KTVLELTV 8
Db 144 KTVLELTV 151
```

```
RESULT 4
US-11-096-568A-5437
; Sequence 5437, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 5437
; LENGTH: 248
; TYPE: PRT
```

ORGANISM: Glycine max  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1) (248)  
OTHER INFORMATION: Ceres Seq. ID no. 14309550  
US-11-096-568A-5437

Query Match 80.5%; Score 33; DB 11; Length 248;  
Best Local Similarity 87.5%; Pred. No. 16;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
Db 153 KTVLELTV 160

## RESULT 5

US-11-045-004-328  
Sequence 328, Application US/11045004  
Publication No. US20060078901A1  
GENERAL INFORMATION:  
APPLICANT: BUCHRISESE, CARMEN  
APPLICANT: FRANGBOL, LIONEL  
APPLICANT: COUVE, ELISABETH  
APPLICANT: RUSNIOK, CHRISTOPHE  
APPLICANT: FSIHI, HAÏDA  
APPLICANT: DEHOUX, PIERRE  
APPLICANT: DUSBURGET, OLIVIER  
APPLICANT: CHETOUANI, FARID  
APPLICANT: NEJDARI, HAFED  
APPLICANT: GLASER, PHILIPPE  
APPLICANT: KUNST, FRANCK  
APPLICANT: COSSART, PASCALE  
APPLICANT: DANIELS, JUSTIN  
APPLICANT: GOEBEL, WERNER  
APPLICANT: KREFT, JURGEN  
APPLICANT: KUHN, MICHAEL  
APPLICANT: NG, EVA  
APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
APPLICANT: GARRIDO-GARCIA, PATRICIA  
APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
APPLICANT: AMEND, ALEXANDRA  
APPLICANT: CHAKRABORTY, TRINAD  
APPLICANT: DOMANN, EUGEN  
APPLICANT: HAIN, THORSTEN  
APPLICANT: BERCHE, PATRICK  
APPLICANT: CHARBIT, ALAIN  
APPLICANT: DURANT, LIONEL  
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA  
APPLICANT: MADUENIO, ENCARNADA  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: MEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUF, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOSS, HANUT  
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
FILE REFERENCE: 05394.0018-02  
CURRENT APPLICATION NUMBER: US/11/045, 004  
CURRENT FILING DATE: 2005-01-28  
PRIOR APPLICATION NUMBER: 10/637, 657  
PRIOR FILING DATE: 2003-08-11  
PRIOR APPLICATION NUMBER: 10/257, 023  
PRIOR FILING DATE: 2002-10-08  
PRIOR APPLICATION NUMBER: PCT/FR01/01118  
PRIOR FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: FR 00/04, 629  
PRIOR FILING DATE: 2000-04-11

NUMBER OF SEQ ID NOS: 2854  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 328  
LENGTH: 481  
TYPE: PRT  
ORGANISM: Listeria monocytogenes  
US-11-045-004-328

Query Match 80.5%; Score 33; DB 11; Length 481;  
Best Local Similarity 77.8%; Pred. No. 35;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
Db 238 KTVLELTV 246

## RESULT 6

US-10-821-234-1458  
Sequence 1458, Application US/10821234  
Publication No. US20050255114A1  
GENERAL INFORMATION:  
APPLICANT: Labat, Ivan  
APPLICANT: Stache-Crain, Birgit  
APPLICANT: Andarmani, Susan  
APPLICANT: Tang, Y. Tom  
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia  
FILE REFERENCE: 821A  
CURRENT APPLICATION NUMBER: US/10/821, 234  
CURRENT FILING DATE: 2004-04-07  
PRIOR APPLICATION NUMBER: US 60/462, 047  
PRIOR FILING DATE: 2003-04-07  
NUMBER OF SEQ ID NOS: 1704  
SOFTWARE: pc\_seq\_genes Version 1.0  
SEQ ID NO 1458  
LENGTH: 500  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-821-234-1458

Query Match 80.5%; Score 33; DB 9; Length 500;  
Best Local Similarity 87.5%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
Db 444 KTVLELTV 451

## RESULT 7

US-11-090-915-2  
Sequence 2, Application US/11090915  
Publication No. US20050288218A1  
GENERAL INFORMATION:  
APPLICANT: DAVIS, Alvin E. et al  
TITLE OF INVENTION: METHODS FOR TREATING AND PREVENTING  
TITLE OF INVENTION: SEPSIS USING MODIFIED C1 INHIBITOR OR  
TITLE OF INVENTION: FRAGMENTS THEREOF  
FILE REFERENCE: CBN-006CN  
CURRENT APPLICATION NUMBER: US/11/090, 915  
CURRENT FILING DATE: 2005-03-24  
PRIOR APPLICATION NUMBER: PCT/US2003/030630  
PRIOR FILING DATE: 2003-09-25  
PRIOR APPLICATION NUMBER: 60/413341  
PRIOR FILING DATE: 2002-09-25  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 500  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-090-915-2



Query Match 80.5%; Score 33; DB 11; Length 500;  
Best Local Similarity 87.5%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
Db 444 QTVLELTV 451

## RESULT 8

US-11-087-099-2202  
; Sequence 2202, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450) B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; CURRENT FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 2202  
; LENGTH: 496  
; TYPE: PRT  
; ORGANISM: Mentha spicata  
US-11-087-099-2202

Query Match 75.6%; Score 31; DB 11; Length 496;  
Best Local Similarity 66.7%; Pred. No. 97;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 335 KTVVDLSEV 343

## RESULT 9

US-11-188-298-2151  
; Sequence 2151, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452) B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 2151  
; LENGTH: 496  
; TYPE: PRT  
; ORGANISM: Mentha spicata  
US-11-188-298-2151

Query Match 75.6%; Score 31; DB 11; Length 496;  
Best Local Similarity 66.7%; Pred. No. 97;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 335 KTVVDLSEV 343

## RESULT 10

US-10-506-454-111  
; Sequence 111, Application US/10506454  
; Publication No. US20060068386A1  
; GENERAL INFORMATION:  
; APPLICANT: Slegarev, Alek I  
; APPLICANT: Mezhevaya, Katja V  
; APPLICANT: Polushin, Nikolai N  
; APPLICANT: Shcherbina, Olga V  
; APPLICANT: Shakhova, Vera V

; APPLICANT: Malykh, Andrei G  
; APPLICANT: Kozvavkin, Sergei A  
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens  
; TITLE OF INVENTION: and Methods of Use Thereof  
; FILE REFERENCE: FID001  
; CURRENT APPLICATION NUMBER: US/10/506,454  
; CURRENT FILING DATE: 2004-08-31  
; PRIOR APPLICATION NUMBER: PCT/US03/06664  
; PRIOR FILING DATE: 2003-03-04  
; PRIOR APPLICATION NUMBER: 60/361,742  
; PRIOR FILING DATE: 2002-03-04  
; NUMBER OF SEQ ID NOS: 1722  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 111  
; LENGTH: 711  
; TYPE: PRT  
; ORGANISM: Methanopyrus kandleri  
US-10-506-454-111

Query Match 75.6%; Score 31; DB 9; Length 711;  
Best Local Similarity 77.8%; Pred. No. 1,5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 649 KEMLELTV 657

RESULT 11  
US-10-330-773-82  
; Sequence 82, Application US/10330773  
; Publication No. US20060040262A1  
; GENERAL INFORMATION:  
; APPLICANT: David W. Morris  
; APPLICANT: Marc Malandro  
; TITLE OF INVENTION: Novel Compositions and Methods in Cancer  
; FILE REFERENCE: 529452001300  
; CURRENT APPLICATION NUMBER: US/10/330,773  
; CURRENT FILING DATE: 2002-12-27  
; NUMBER OF SEQ ID NOS: 981  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 82  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-330-773-82

Query Match 73.2%; Score 30; DB 9; Length 175;  
Best Local Similarity 55.6%; Pred. No. 46;  
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 165 KTVVDLSEI 173

RESULT 12  
US-10-793-626-3062  
; Sequence 3062, Application US/10793626  
; Publication No. US20050255478A1  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: P03480US  
; CURRENT APPLICATION NUMBER: US/10/793,626  
; CURRENT FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3062  
; LENGTH: 302



```
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-3062
```

```
Query Match          73.2%; Score 30; DB 9; Length 302;
Best Local Similarity 55.6%; Pred. No. 87;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 KTVLELREV 9
Db      170 KSULELTDI 178
```

```
RESULT 13
US-10-793-626-3086
; Sequence 3086, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3086
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-3086
```

```
Query Match          70.7%; Score 29; DB 9; Length 131;
Best Local Similarity 55.6%; Pred. No. 52;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 KTVLELREV 9
Db      97 KTVMDLMEI 105
```

```
RESULT 14
US-10-506-454-231
; Sequence 231, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Mal'kh, Andrei G
; APPLICANT: Kozayavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Mechanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; PRIOR FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 231
```

```
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-231
```

```
Query Match          70.7%; Score 29; DB 9; Length 180;
Best Local Similarity 55.6%; Pred. No. 77;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 KTVLELREV 9
Db      6 KEVIDLTFI 14
```

```
RESULT 15
US-11-181-115-1
; Sequence 1, Application US/11181115
; Publication No. US2006008851A1
; GENERAL INFORMATION:
; APPLICANT: Dana Farber Cancer Center
; TITLE OF INVENTION: Cancer Therapy Sensitizer
; FILE REFERENCE: 7032/2072
; CURRENT APPLICATION NUMBER: US/11/181,115
; PRIOR FILING DATE: 2005-07-14
; PRIOR APPLICATION NUMBER: PCT/US04/000901
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,009
; PRIOR FILING DATE: 2003-01-14
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-181-115-1
```

```
Query Match          70.7%; Score 29; DB 10; Length 303;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 KTVLELREV 9
Db      33 ETVAEVTEV 41
```

```
RESULT 16
US-11-181-115-44
; Sequence 44, Application US/11181115
; Publication No. US2006008851A1
; GENERAL INFORMATION:
; APPLICANT: Dana Farber Cancer Center
; TITLE OF INVENTION: Cancer Therapy Sensitizer
; FILE REFERENCE: 7032/2072
; CURRENT APPLICATION NUMBER: US/11/181,115
; PRIOR FILING DATE: 2005-07-14
; PRIOR APPLICATION NUMBER: PCT/US04/000901
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,009
; PRIOR FILING DATE: 2003-01-14
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 44
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-181-115-44
```

```
Query Match          70.7%; Score 29; DB 10; Length 303;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 KTVLELREV 9
Db      33 ETVAEVTEV 41
```

Db 33 ETVAEVTEV 41

```
RESULT 17
US-11-186-284-193
; Sequence 193, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangt
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen N.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2NM
; CURRENT APPLICATION NUMBER: US/11/186,284
; CURRENT FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 193
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-186-284-193
```

Query Match 70.7%; Score 29; DB 11; Length 303;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTE 9  
||:||||  
Db 33 ETVAEVTEV 41

```
RESULT 18
US-11-156-084-291
; Sequence 291, Application US/11156084
; Publication No. US20060010515A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology LLC
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to
; TITLE OF INVENTION: agronomically interesting phenotypes
; FILE REFERENCE: (38-21)
; CURRENT APPLICATION NUMBER: US/11/156,084
; CURRENT FILING DATE: 2005-06-17
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 291
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Vibrio vulnificus
US-11-156-084-291
```

Query Match 70.7%; Score 29; DB 11; Length 304;  
Best Local Similarity 75.0%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTE 8  
||:||||  
Db 165 KTLTELTE 172

```
RESULT 19
US-11-156-084-313
; Sequence 313, Application US/11156084
; Publication No. US20060010515A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology LLC
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to
; TITLE OF INVENTION: agronomically interesting phenotypes
; FILE REFERENCE: (38-21)
; CURRENT APPLICATION NUMBER: US/11/156,084
; CURRENT FILING DATE: 2005-06-17
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 313
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Vibrio vulnificus
US-11-156-084-313
```

Query Match 70.7%; Score 29; DB 11; Length 315;  
Best Local Similarity 75.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTE 8  
||:||||  
Db 176 KTLTELTE 183

```
RESULT 20
US-11-156-084-353
; Sequence 353, Application US/11156084
; Publication No. US20060010515A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology LLC
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to
; TITLE OF INVENTION: agronomically interesting phenotypes
; FILE REFERENCE: (38-21)
; CURRENT APPLICATION NUMBER: US/11/156,084
; CURRENT FILING DATE: 2005-06-17
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 353
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Vibrio vulnificus YJ016
US-11-156-084-353
```

Query Match 70.7%; Score 29; DB 11; Length 315;  
Best Local Similarity 75.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KTVLELTE 8  
||:||||  
Db 176 KTLTELTE 183

```
RESULT 21
US-11-079-463-7965
; Sequence 7965, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
```

NUMBER OF SEQ ID NOS: 10444  
SEQ ID NO 7965  
LENGTH: 358  
TYPE: PRT  
ORGANISM: B.fragilis  
US-11-079-463-7965

Query Match 70.7%; Score 29; DB 11; Length 358;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLEITEV 9  
DB 313 KTKMLTEV 321

RESULT 22  
US-10-055-877-14  
Sequence 14, Application US/10055877  
Publication No. US20050288241A1  
GENERAL INFORMATION:  
APPLICANT: Decristofaro, Marc  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Miller, Charles  
APPLICANT: Tchernev, Velizar  
APPLICANT: Zhong, Mei  
APPLICANT: Anderson, David  
APPLICANT: Ballinger, Robert  
APPLICANT: Gerlach, Valerie  
APPLICANT: Spytek, Kimberly  
APPLICANT: Ratelli, Luca  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Guo, Xiaojia  
APPLICANT: Zernusen, Bryan  
APPLICANT: Andrew, David  
APPLICANT: Mezes, Peter  
APPLICANT: Patuturajan, Meera  
APPLICANT: Burgess, Catherine  
APPLICANT: Eileen, Andrew  
APPLICANT: Wolenc, Adam  
APPLICANT: Baumgartner, Jason  
APPLICANT: Shinkets, Richard  
APPLICANT: Gusev, Vladimir  
APPLICANT: Vermet, Corine  
APPLICANT: Taupier Jr., Raymond  
APPLICANT: Pena, Carol  
APPLICANT: Shenoy, Suresh  
APPLICANT: Li, Li  
APPLICANT: Casman, Stacie  
APPLICANT: Boldog, Ferenc  
TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby  
FILE REFERENCE: 21402-251  
CURRENT APPLICATION NUMBER: US/10/055,877  
CURRENT FILING DATE: 2002-01-22  
PRIOR APPLICATION NUMBER: 60/262,892  
PRIOR FILING DATE: 2001-01-19  
PRIOR APPLICATION NUMBER: 60/263,598  
PRIOR FILING DATE: 2001-01-23  
PRIOR APPLICATION NUMBER: 60/263,799  
PRIOR FILING DATE: 2001-01-24  
PRIOR APPLICATION NUMBER: 60/264,117  
PRIOR FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: 60/264,139  
PRIOR FILING DATE: 2001-01-25  
PRIOR APPLICATION NUMBER: 60/264,478  
PRIOR FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: 60/263,351  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: 60/272,870  
PRIOR FILING DATE: 2001-03-02  
PRIOR APPLICATION NUMBER: 60/275,990  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/275,927

PRIOR FILING DATE: 2001-03-14  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 512  
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 14  
LENGTH: 363  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-055-877-14

Query Match 70.7%; Score 29; DB 9; Length 363;  
Best Local Similarity 66.7%; Pred. No. 1.8e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVLEITEV 9  
DB 227 KTKALQTEV 235

RESULT 23  
US-11-055-822-110  
Sequence 110, Application US/11055822  
Publication No. US20050260707A1  
GENERAL INFORMATION:  
APPLICANT: Pompejus, Markus  
APPLICANT: Kroger, Burkhard  
APPLICANT: Schröder, Hartwig  
APPLICANT: Zelder, Oskar  
APPLICANT: Habershauer, Gregor  
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING  
FILE REFERENCE: BGI-121CRN  
CURRENT APPLICATION NUMBER: US/11/055,822  
CURRENT FILING DATE: 2005-02-11  
PRIOR APPLICATION NUMBER: 09/606,740  
PRIOR FILING DATE: 2000-06-23  
PRIOR APPLICATION NUMBER: 60/141,031  
PRIOR FILING DATE: 1999-06-25  
PRIOR APPLICATION NUMBER: 60/142,101  
PRIOR FILING DATE: 1999-07-02  
PRIOR APPLICATION NUMBER: 60/148,613  
PRIOR FILING DATE: 1999-08-12  
PRIOR APPLICATION NUMBER: 60/187,970  
PRIOR FILING DATE: 2000-03-09  
PRIOR APPLICATION NUMBER: DE 19930476.9  
PRIOR FILING DATE: 1999-07-01  
PRIOR APPLICATION NUMBER: DE 19931415.2  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: DE 19931418.7  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: DE 19931419.5  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: DE 19931420.9  
PRIOR FILING DATE: 1999-07-08  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1158  
SEQ ID NO 110  
LENGTH: 613  
TYPE: PRT  
ORGANISM: Corynebacterium glutamicum  
US-11-055-822-110

Query Match 70.7%; Score 29; DB 11; Length 613;  
Best Local Similarity 62.5%; Pred. No. 3.3e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLEITE 8  
DB 140 KTKLEWAB 147

RESULT 24  
US-11-080-991-50

```
/ Sequence 50, Application US/11080991
/ Publication No. US20050266437A1
/ GENERAL INFORMATION:
/ APPLICANT: Veldy, Pelter Ole
/ TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
/ TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
/ FILE REFERENCE: MRI-039
/ CURRENT APPLICATION NUMBER: US/11/080,991
/ CURRENT FILING DATE: 2005-03-11
/ PRIOR APPLICATION NUMBER: US/10/176,847
/ PRIOR FILING DATE: 2002-06-21
/ NUMBER OF SEQ ID NOS: 112
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 50
/ LENGTH: 997
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-080-991-50
```

```
Query Match 70.7%; Score 29; DB 11; Length 997;
Best Local Similarity 85.7%; Pred. No. 5.9e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 TVLELITE 8
Db 256 TVLELITE 262
```

```
RESULT 25
US-11-113-424-36
/ Sequence 36, Application US/11113424
/ Publication No. US20050260713A1
/ GENERAL INFORMATION:
/ APPLICANT: Gangoli et al.
/ TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
/ FILE REFERENCE: 21402-225
/ CURRENT APPLICATION NUMBER: US/11/113,424
/ CURRENT FILING DATE: 2005-04-21
/ PRIOR APPLICATION NUMBER: 60/256,704
/ PRIOR FILING DATE: 2000-12-19
/ PRIOR APPLICATION NUMBER: 60/311,590
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: 60/257,314
/ PRIOR FILING DATE: 2000-12-20
/ PRIOR APPLICATION NUMBER: 60/311,613
/ PRIOR FILING DATE: 2001-08-10
/ PRIOR APPLICATION NUMBER: 60/315,617
/ PRIOR FILING DATE: 2001-08-29
/ PRIOR APPLICATION NUMBER: 60/307,506
/ PRIOR FILING DATE: 2001-07-24
/ PRIOR APPLICATION NUMBER: 60/322,358
/ PRIOR FILING DATE: 2001-09-14
/ PRIOR APPLICATION NUMBER: 60/294,075
/ PRIOR FILING DATE: 2001-05-29
/ PRIOR APPLICATION NUMBER: 60/288,153
/ PRIOR FILING DATE: 2001-05-02
/ NUMBER OF SEQ ID NOS: 190
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 36
/ LENGTH: 999
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-113-424-36
```

```
Query Match 70.7%; Score 29; DB 11; Length 999;
Best Local Similarity 85.7%; Pred. No. 5.9e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 TVLELITE 8
Db 258 TVLELITE 264
```

```
RESULT 26
US-10-204-252-10
/ Sequence 10, Application US/10204252
/ Publication No. US2006062803A1
/ GENERAL INFORMATION:
/ APPLICANT: The Government of the United States of America, as represented by the
/ APPLICANT: Secretary, Department of Health and Human Services, Centers for
/ APPLICANT: Disease Control and Prevention
/ TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
/ TITLE OF INVENTION: FLAVIVIRUS CHIMERAS
/ FILE REFERENCE: 14114.033402
/ CURRENT APPLICATION NUMBER: US/10/204,252
/ CURRENT FILING DATE: 2002-02-16
/ PRIOR APPLICATION NUMBER: 60/182,829
/ PRIOR FILING DATE: 2000-02-16
/ NUMBER OF SEQ ID NOS: 148
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 10
/ LENGTH: 3389
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-204-252-10
```

```
Query Match 70.7%; Score 29; DB 9; Length 3389;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KTVLELITE 8
Db 1243 ETVLELITE 1250
```

```
RESULT 27
US-10-204-252-6
/ Sequence 6, Application US/10204252
/ Publication No. US2006062803A1
/ GENERAL INFORMATION:
/ APPLICANT: The Government of the United States of America, as represented by the
/ APPLICANT: Secretary, Department of Health and Human Services, Centers for
/ APPLICANT: Disease Control and Prevention
/ TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
/ TITLE OF INVENTION: FLAVIVIRUS CHIMERAS
/ FILE REFERENCE: 14114.033402
/ CURRENT APPLICATION NUMBER: US/10/204,252
/ CURRENT FILING DATE: 2002-02-16
/ PRIOR APPLICATION NUMBER: 60/182,829
/ PRIOR FILING DATE: 2000-02-16
/ NUMBER OF SEQ ID NOS: 148
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 6
/ LENGTH: 3391
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-204-252-6
```

```
Query Match 70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KTVLELITE 8
Db 1245 ETVLELITE 1252
```

```
RESULT 28
US-10-204-252-8
```

```
; Sequence 8, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-8

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTYVLEITE 8
DB 1245 ETLLELTD 1252

RESULT 29
US-10-204-252-12
; Sequence 12, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-12

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTYVLEITE 8
DB 1245 ETLLELTD 1252

RESULT 30
US-10-204-252-14
; Sequence 14, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
```

```
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-14

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTYVLEITE 8
DB 1245 ETLLELTD 1252

RESULT 31
US-10-204-252-16
; Sequence 16, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
; TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC
; FILE REFERENCE: 14114.0334U2
; CURRENT APPLICATION NUMBER: US/10/204,252
; CURRENT FILING DATE: 2002-02-16
; PRIOR APPLICATION NUMBER: 60/182,829
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 3391
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: synthetic construct
US-10-204-252-16

Query Match          70.7%; Score 29; DB 9; Length 3391;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTYVLEITE 8
DB 1245 ETLLELTD 1252

RESULT 32
US-10-204-252-28
; Sequence 28, Application US/10204252
; Publication No. US20060062803A1
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as represented by the
; APPLICANT: Secretary, Department of Health and Human Services, Centers for
; APPLICANT: Disease Control and Prevention
```

FILE OF INVENTION: AVIRULENT, IMMUNOGENIC  
FILE OF INVENTION: FLAVIVIRUS CHIMERS  
FILE REFERENCE: 14114.033402  
CURRENT APPLICATION NUMBER: US/10/204,252  
CURRENT FILING DATE: 2002-02-16  
PRIOR APPLICATION NUMBER: 60/182,829  
PRIOR FILING DATE: 2000-02-16  
NUMBER OF SEQ ID NOS: 148  
SOFTWARE: PasteSeq for Windows Version 4.0  
SEQ ID NO 28  
LENGTH: 3391  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:/Note =  
US-10-204-252-28

Query Match 70.7%; Score 29; DB 9; Length 3391;  
Best Local Similarity 62.5%; Pred. No. 2.5e+03;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 1245 ETIVLELTD 1252

RESULT 33  
US-10-204-252-18  
Sequence 18, Application US/10204252  
Publication No. US20060062803A1  
GENERAL INFORMATION:  
APPLICANT: The Government of the United States of America, as represented by the  
APPLICANT: Secretary, Department of Health and Human Services, Centers for  
APPLICANT: Disease Control and Prevention  
TITLE OF INVENTION: AVIRULENT, IMMUNOGENIC  
FILE OF INVENTION: FLAVIVIRUS CHIMERS  
FILE REFERENCE: 14114.033402  
CURRENT APPLICATION NUMBER: US/10/204,252  
CURRENT FILING DATE: 2002-02-16  
PRIOR APPLICATION NUMBER: 60/182,829  
PRIOR FILING DATE: 2000-02-16  
NUMBER OF SEQ ID NOS: 148  
SOFTWARE: PasteSeq for Windows Version 4.0  
SEQ ID NO 18  
LENGTH: 3402  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:/Note =  
US-10-204-252-18

Query Match 70.7%; Score 29; DB 9; Length 3402;  
Best Local Similarity 62.5%; Pred. No. 2.5e+03;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 1256 ETIVLELTD 1263

RESULT 34  
US-10-467-657-390  
Sequence 390, Application US/10467657  
Publication No. US20050260581A1  
GENERAL INFORMATION:  
APPLICANT: CHIRON SPA  
APPLICANT: FONTANA Maria Rita  
APPLICANT: PIZZA Mariagrazia  
APPLICANT: MASIGNANI Vega  
APPLICANT: MONACI Elisabetta  
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS

FILE REFERENCE:  
CURRENT APPLICATION NUMBER: US/10/467,657  
CURRENT FILING DATE: 2003-08-11  
PRIOR APPLICATION NUMBER: GB-0103424.8  
PRIOR FILING DATE: 2001-02-12  
NUMBER OF SEQ ID NOS: 9218  
SOFTWARE: SeqMan9, version 1.04  
SEQ ID NO 390  
LENGTH: 118  
TYPE: PRT  
ORGANISM: Neisseria gonorrhoeae  
US-10-467-657-390

Query Match 68.3%; Score 28; DB 9; Length 118;  
Best Local Similarity 62.5%; Pred. No. 75;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 34 ETIVLELTE 41

RESULT 35  
US-11-079-463-5429  
Sequence 5429, Application US/11079463  
Publication No. US20060073161A1  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC  
FILE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: PATH00-03DIV2  
CURRENT APPLICATION NUMBER: US/11/079,463  
CURRENT FILING DATE: 2005-03-14  
PRIOR APPLICATION NUMBER: US 60/128,705  
PRIOR FILING DATE: 1999-04-09  
PRIOR APPLICATION NUMBER: US 09/540,209  
PRIOR FILING DATE: 2000-04-04  
NUMBER OF SEQ ID NOS: 10444  
SEQ ID NO 5429  
LENGTH: 134  
TYPE: PRT  
ORGANISM: B.fragilis  
US-11-079-463-5429

Query Match 68.3%; Score 28; DB 11; Length 134;  
Best Local Similarity 75.0%; Pred. No. 88;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTE 8  
Db 90 EAVLELTE 97

RESULT 36  
US-11-096-568A-11451  
Sequence 11451, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 11451  
LENGTH: 151  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (1)-(151)  
OTHER INFORMATION: Ceres Seq. ID no. 15219662

US-11-096-568A-11451

Query Match 68.3%; Score 28; DB 11; Length 151;  
 Best Local Similarity 66.7%; Pred. No. 1e+02;  
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
 Db 3 KTVLELTV 11

RESULT 37

US-11-045-004-523  
 ; Sequence 523, Application US/11045004  
 ; Publication No. US20060078901A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BUCHRISEER, CARMEN  
 ; APPLICANT: FRANGBUL, LIONEL  
 ; APPLICANT: COUVE, ELISABETH  
 ; APPLICANT: RUSNIOK, CHRISTOPHE  
 ; APPLICANT: ESITH, HAFIDA  
 ; APPLICANT: DEHOUX, PIERRE  
 ; APPLICANT: DUSURGET, OLIVIER  
 ; APPLICANT: CHETOUANI, FARID  
 ; APPLICANT: NEJARI, HAFED  
 ; APPLICANT: GLASER, PHILIPPE  
 ; APPLICANT: KUNST, FRANCK  
 ; APPLICANT: COSSART, PASCALE  
 ; APPLICANT: DANIELS, JUSTIN  
 ; APPLICANT: GOEBEL, WERNER  
 ; APPLICANT: KREFT, JURGEN  
 ; APPLICANT: KUHN, MICHAEL  
 ; APPLICANT: NG, EVA  
 ; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
 ; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
 ; APPLICANT: GARRIDO-GARCIA, PATRICIA  
 ; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
 ; APPLICANT: AMEND, ALEXANDRA  
 ; APPLICANT: CHAKRABORTY, TRINAD  
 ; APPLICANT: DOMANN, EUGEN  
 ; APPLICANT: HAIN, THORSTEN  
 ; APPLICANT: BERCHT, PATRICK  
 ; APPLICANT: CHARBIT, ALAIN  
 ; APPLICANT: DURANT, LIONEL  
 ; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
 ; APPLICANT: BAQUERO, FERNANDO  
 ; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
 ; APPLICANT: GOMEZ-LOPEZ, NURIA  
 ; APPLICANT: MADUENIO, ENCANA  
 ; APPLICANT: PABLOS, BETRIZ DE  
 ; APPLICANT: WEHLAND, JURGEN  
 ; APPLICANT: KARST, UWE  
 ; APPLICANT: ENTIAN, KARL-DIETER  
 ; APPLICANT: HAUP, JORG  
 ; APPLICANT: ROSE, MATTHIAS  
 ; APPLICANT: VOSS, HAMUT  
 ; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
 ; FILE REFERENCE: 05394.0018-02  
 ; CURRENT APPLICATION NUMBER: US/11/045,004  
 ; PRIOR FILING DATE: 2005-01-28  
 ; PRIOR APPLICATION NUMBER: 10/637,657  
 ; PRIOR FILING DATE: 2003-08-11  
 ; PRIOR APPLICATION NUMBER: 10/257,023  
 ; PRIOR FILING DATE: 2002-10-08  
 ; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
 ; PRIOR FILING DATE: 2001-04-11  
 ; PRIOR APPLICATION NUMBER: FR 00/04,629  
 ; PRIOR FILING DATE: 2000-04-11  
 ; NUMBER OF SEQ ID NOS: 2854  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 523  
 ; LENGTH: 167  
 ; TYPE: PRT

; ORGANISM: Listeria monocytogenes  
 US-11-045-004-523

Query Match 68.3%; Score 28; DB 11; Length 167;  
 Best Local Similarity 75.0%; Pred. No. 1.1e+02;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
 Db 95 KEVLELTV 102

RESULT 38

US-10-506-454-263  
 ; Sequence 263, Application US/10506454  
 ; Publication No. US20060068386A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Slesarev, Alexi I  
 ; APPLICANT: Mezheva, Katja V  
 ; APPLICANT: Polushin, Nikolai N  
 ; APPLICANT: Shcherbina, Olga V  
 ; APPLICANT: Shakhova, Vera V  
 ; APPLICANT: Mal'kh, Andrei G  
 ; APPLICANT: Kozavkin, Sergei A  
 ; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
 ; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens  
 ; FILE REFERENCE: FID001  
 ; CURRENT APPLICATION NUMBER: US/10/506,454  
 ; CURRENT FILING DATE: 2004-08-31  
 ; PRIOR APPLICATION NUMBER: PCT/US03/06664  
 ; PRIOR FILING DATE: 2003-03-04  
 ; PRIOR APPLICATION NUMBER: 60/361,742  
 ; PRIOR FILING DATE: 2002-03-04  
 ; NUMBER OF SEQ ID NOS: 1722  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 263  
 ; LENGTH: 192  
 ; TYPE: PRT  
 ; ORGANISM: Methanopyrus kandleri  
 US-10-506-454-263

Query Match 68.3%; Score 28; DB 9; Length 192;  
 Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
 Db 153 KTVLELTV 160

RESULT 39

US-11-096-568A-10973  
 ; Sequence 10973, Application US/11096568A  
 ; Publication No. US20060048240A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alexandrov, Nickolai et al.  
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
 ; FILE REFERENCE: 2750-1592US2  
 ; CURRENT APPLICATION NUMBER: US/11/096,568A  
 ; PRIOR FILING DATE: 2005-04-01  
 ; NUMBER OF SEQ ID NOS: 34471  
 ; SEQ ID NO 10973  
 ; LENGTH: 226  
 ; TYPE: PRT  
 ; ORGANISM: Triticum aestivum  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (1)..(226)  
 ; OTHER INFORMATION: Ceres Seq. ID no. 13597554  
 US-11-096-568A-10973

Query Match 68.3%; Score 28; DB 11; Length 226;  
Best Local Similarity 75.0%; Pred. No. 1.6e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
Db 136 KTALELAE 143

RESULT 40  
US-11-096-568A-31750  
; Sequence 31750, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; TITLE OF INVENTION: Theby  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31750  
; LENGTH: 262  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(262)  
; OTHER INFORMATION: Ceres Seq. ID no. 13588698  
US-11-096-568A-31750

Query Match 68.3%; Score 28; DB 11; Length 262;  
Best Local Similarity 55.6%; Pred. No. 2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 22 KTISEATEI 30

RESULT 41  
US-11-045-004-549  
; Sequence 549, Application US/11045004  
; Publication No. US20060079901A1  
; GENERAL INFORMATION:  
; APPLICANT: BUCHRISSER, CARMEN  
; APPLICANT: FRANGEUL, LIONEL  
; APPLICANT: COUVE, ELISABETH  
; APPLICANT: RUSNIOK, CHRISTOPHE  
; APPLICANT: FSIHI, HAFIDA  
; APPLICANT: DEHOUC, PIERRE  
; APPLICANT: DUSBURGET, OLIVIER  
; APPLICANT: CHETOUANI, FARID  
; APPLICANT: NEJARI, HAFED  
; APPLICANT: GLASER, PHILIPPE  
; APPLICANT: KUNST, FRANCK  
; APPLICANT: COSSART, PASCAL  
; APPLICANT: DANIELS, JUSTIN  
; APPLICANT: GOEBEL, WERNER  
; APPLICANT: KREFT, JURGEN  
; APPLICANT: KUHN, MICHAEL  
; APPLICANT: NG, EVA  
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
; APPLICANT: GARRIDO-GARCIA, PATRICIA  
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
; APPLICANT: AMEND, ALEXANDRA  
; APPLICANT: CHAKRABORTY, TRINAD  
; APPLICANT: DOMANN, EUGEN  
; APPLICANT: HAIN, THORSTEN  
; APPLICANT: BERCHE, PATRICK  
; APPLICANT: CHARBIT, ALAIN  
; APPLICANT: DURANT, LIONEL

APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
APPLICANT: BAQUERO, FERRANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA  
APPLICANT: MADUENIO, ENCARN  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: WEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUF, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOSS, HANUT

; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
; FILE REFERENCE: 06394.0018-02  
; CURRENT APPLICATION NUMBER: US/11/045,004  
; CURRENT FILING DATE: 2005-01-28  
; PRIOR APPLICATION NUMBER: 10/637,657  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 549  
; LENGTH: 284  
; TYPE: PRT  
; ORGANISM: Listeria monocytogenes  
US-11-045-004-549

Query Match 68.3%; Score 28; DB 11; Length 284;  
Best Local Similarity 62.5%; Pred. No. 2.1e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KTVLELTV 8  
Db 61 KTVVKNTE 68

RESULT 42  
US-11-096-568A-31749  
; Sequence 31749, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31749  
; LENGTH: 285  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(285)  
; OTHER INFORMATION: Ceres Seq. ID no. 13588697  
US-11-096-568A-31749

Query Match 68.3%; Score 28; DB 11; Length 285;  
Best Local Similarity 55.6%; Pred. No. 2.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
Db 45 KTISEATEI 53

RESULT 43



US-11-045-004-1210  
; Sequence 1210, Application US/11045004  
; Publication No. US20060078901A1  
; GENERAL INFORMATION:  
; APPLICANT: BUCHRISSER, CARMEN  
; APPLICANT: FRANGEUL, LIONEL  
; APPLICANT: COUVE, ELISABETH  
; APPLICANT: RUSNIOK, CHRISTOPHE  
; APPLICANT: FSIHI, HAIDA  
; APPLICANT: DESHOUX, PIERRE  
; APPLICANT: DUSSEURET, OLIVIER  
; APPLICANT: CHETOUANI, FARID  
; APPLICANT: NEDJARI, HAFID  
; APPLICANT: GLASER, PHILIPPE  
; APPLICANT: KUNST, FRANK  
; APPLICANT: COSSART, PASCALE  
; APPLICANT: DANIELS, JUSTIN  
; APPLICANT: GOEBEL, WERNER  
; APPLICANT: KREFT, JURGEN  
; APPLICANT: KUNH, MICHAEL  
; APPLICANT: NG, EVA  
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
; APPLICANT: GARRIDO-GARCIA, PATRICIA  
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
; APPLICANT: AMEND, ALEXANDRA  
; APPLICANT: CHAKRABORTY, TRINAD  
; APPLICANT: DOMANN, EUGEN  
; APPLICANT: HAIN, THORSTEN  
; APPLICANT: BERCHE, PATRICK  
; APPLICANT: CHARBIT, ALAIN  
; APPLICANT: DURANT, LIONEL  
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
; APPLICANT: BAQUERO, FERNANDO  
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
; APPLICANT: GOMEZ-LOPEZ, NURIA  
; APPLICANT: MADUENIO, ENCARNACION  
; APPLICANT: PABLOS, BETRIZ DE  
; APPLICANT: MEHLAND, JURGEN  
; APPLICANT: KARST, UWE  
; APPLICANT: ENTIAN, KARL-DIETER  
; APPLICANT: HAUF, JORG  
; APPLICANT: ROSE, MATTHIAS  
; APPLICANT: VOSS, HAMUT  
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
; FILE REFERENCE: 05394.0018-02  
; CURRENT FILING DATE: 2005-01-28  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: 10/637,657  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: Patentin version 3.3  
; SEQ ID NO 1210  
; LENGTH: 306  
; TYPE: PRT  
; ORGANISM: Listeria monocytogenes  
US-11-045-004-1210

Query Match 68.3%; Score 28; DB 11; Length 306;  
Best Local Similarity 55.6%; Pred. No. 2.3e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
|||:|||||  
DB 287 KTLFENTET 295

RESULT 44  
US-11-156-084-208  
; Sequence 208, Application US/11156084  
; Publication No. US20060010515A1  
; GENERAL INFORMATION:  
; APPLICANT: Monsanto Technology LLC  
; TITLE OF INVENTION: Controlled expression of cytokinin biosynthetic genes leads to  
; FILE REFERENCE: (38-21)  
; CURRENT FILING DATE: 2005-06-17  
; NUMBER OF SEQ ID NOS: 364  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 208  
; LENGTH: 313  
; TYPE: PRT  
; ORGANISM: Yersinia pestis  
US-11-156-084-208

Query Match 68.3%; Score 28; DB 11; Length 313;  
Best Local Similarity 55.6%; Pred. No. 2.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KTVLELTV 9  
|||:|||||  
DB 180 KTLFETKI 188

RESULT 45  
US-11-096-568A-10972  
; Sequence 10972, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 10972  
; LENGTH: 315  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)-(315)  
; OTHER INFORMATION: Ceres Seq. ID no. 13597553  
US-11-096-568A-10972

Query Match 68.3%; Score 28; DB 11; Length 315;  
Best Local Similarity 75.0%; Pred. No. 2.4e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KTVLELTV 8  
|||:|||||  
DB 225 KTALELAE 232

RESULT 46  
US-11-096-568A-10971  
; Sequence 10971, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 10971  
; LENGTH: 329

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; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(329)
; OTHER INFORMATION: Ceres Seq. ID no. 13597552
US-11-096-568A-10971
```

```

Query Match      68.3%; Score 28; DB 11; Length 329;
Best Local Similarity 75.0%; Pred. No. 2.6e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY      1 KTVLELTV 8
Db      239 KTALELAE 246
```

```

RESULT 47
US-11-087-099-8695
; Sequence 8695, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8695
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Pyrococcus abyssi
US-11-087-099-8695
```

```

Query Match      68.3%; Score 28; DB 11; Length 334;
Best Local Similarity 75.0%; Pred. No. 2.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 TVLELTV 9
Db      258 TTKLELTV 265
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```

RESULT 48
US-11-087-099-6306
; Sequence 6306, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6306
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Actinoplanes sp. 50/110
US-11-087-099-6306
```

```

Query Match      68.3%; Score 28; DB 11; Length 341;
Best Local Similarity 75.0%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 TVLELTV 9
Db      250 TTKLELTV 257
```

```

RESULT 49
US-11-087-099-3605
; Sequence 3605, Application US/11087099
; Publication No. US20060041961A1
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```

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 3605
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Tropheryma whipplei str. Twist
US-11-087-099-3605
```

```

Query Match      68.3%; Score 28; DB 11; Length 344;
Best Local Similarity 66.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
QY      1 KTVLELTV 9
Db      232 KTALELREL 240
```

```

RESULT 50
US-11-045-004-1301
; Sequence 1301, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIEGER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: PSIH, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSURGET, OLIVIER
; APPLICANT: CHERTOUANT, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCAL
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
```

; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO: 1301  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Listeria monocytogenes  
US-11-045-004-1301

Query Match 68.3%; Score 28; DB 11; Length 351;  
Best Local Similarity 66.7%; Pred. No. 2.8e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KTVLELTV 9  
| | | | |  
| | | | |  
Db 234 KOVLEITNV 242

Search completed: May 5, 2006, 07:56:43  
Job time : 10.4 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds  
(without alignments)

40.864 Million cell updates/sec

Title: US-08-170-344-26

Perfect score: 44

Sequence: 1 ELTEVFEEFA 9

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 1000 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5 COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/6 COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/H COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/PCITUS COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/RE COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	100.0	15	2	US-08-159-339A-1174
2	44	100.0	158	1	US-08-247-904B-10
3	44	100.0	158	2	US-08-767-942A-19
4	44	100.0	271	1	US-08-117-083-14
5	44	100.0	278	2	US-09-485-885-21
6	44	100.0	383	2	US-09-485-885-23
7	39	88.6	10	2	US-08-159-339A-87
8	33	75.0	536	2	US-09-248-796A-19182
9	32	72.7	304	2	US-09-107-532A-4117
10	31	70.5	71	2	US-09-270-767-33165
11	31	70.5	71	2	US-09-270-767-53382
12	31	70.5	73	2	US-09-286-959B-16
13	31	70.5	117	2	US-09-107-532A-6259
14	31	70.5	123	2	US-09-134-000C-4494
15	31	70.5	216	2	US-09-134-000C-5796
16	31	70.5	288	1	US-08-246-403A-3
17	31	70.5	288	1	US-08-246-403A-6
18	31	70.5	309	2	US-09-348-796A-25339
19	31	70.5	429	2	US-09-328-352-4643
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21	30	68.2	109	2	US-09-653-600A-213
22	30	68.2	137	2	US-09-270-767-33279
23	30	68.2	137	2	US-09-270-767-48496
24	30	68.2	141	1	US-08-187-186A-5
25	30	68.2	141	1	US-08-442-497C-9
26	30	68.2	141	2	US-09-333-033-9
27	30	68.2	141	2	US-10-004-832-9

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29	30	68.2	142	1	US-08-442-497C-2	Sequence 2, Appl1
30	30	68.2	142	2	US-09-333-033-2	Sequence 2, Appl1
31	30	68.2	142	2	US-09-663-600A-229	Sequence 229, App
32	30	68.2	142	2	US-10-004-832-2	Sequence 2, Appl1
33	30	68.2	142	4	PCT-US94-05186-2	Sequence 11009, A
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35	30	68.2	157	2	US-09-949-016-7648	Sequence 2458, Ap
36	30	68.2	311	2	US-10-104-047-2458	Sequence 17899, A
37	30	68.2	323	2	US-09-252-991A-17899	Sequence 7138, Ap
38	30	68.2	327	2	US-09-328-352-7138	Sequence 6752, Ap
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41	30	68.2	455	2	US-09-270-767-50459	Sequence 50459, A
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45	30	68.2	764	2	US-09-585-858-15	Sequence 15, Appl
46	30	68.2	764	2	US-10-270-878-15	Sequence 31, Appl
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50	29	65.9	18	1	US-08-586-772-59	Sequence 59, Appl
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52	29	65.9	18	2	US-09-512-983-59	Sequence 59, Appl
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54	29	65.9	71	2	US-09-270-767-57080	Sequence 5928, Ap
55	29	65.9	95	2	US-09-328-352-5928	Sequence 41837, A
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58	29	65.9	140	2	US-09-134-001C-3413	Sequence 408, App
59	29	65.9	167	2	US-09-710-279-408	Sequence 3138, Ap
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61	29	65.9	190	2	US-09-248-796A-20327	Sequence 45675, A
62	29	65.9	219	2	US-09-270-767-45875	Sequence 5, Appl1
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70	29	65.9	305	2	US-08-793-624-25	Sequence 310, App
71	29	65.9	305	4	PCT-US95-10194-25	Sequence 864, App
72	29	65.9	308	2	US-09-198-452A-310	Sequence 299, App
73	29	65.9	310	2	US-09-198-452A-864	Sequence 9885, Ap
74	29	65.9	310	2	US-09-438-185A-299	Sequence 2848, A
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83	29	65.9	496	2	US-09-949-016-6525	Sequence 10333, A
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86	29	65.9	523	2	US-09-949-016-10330	Sequence 15, Appl
87	29	65.9	523	2	US-09-949-016-10332	Sequence 426, App
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95	29	65.9	591	2	US-09-949-016-10142	
96	29	65.9	591	2	US-09-949-016-10143	
97	29	65.9	591	2	US-09-949-016-10144	
98	29	65.9	591	2	US-09-949-016-10145	
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102	29	65.9	706	1	US-09-538-092-957	Sequence 957, App	175	28	63.6	490	2	US-09-461-325-250	Sequence 250, App
103	29	65.9	714	1	US-08-990-114-3	Sequence 3, Appl1	176	28	63.6	490	2	US-09-461-325-518	Sequence 518, App
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105	29	65.9	747	1	US-09-949-016-10040	Sequence 10040, A	178	28	63.6	490	2	US-10-012-542-518	Sequence 518, App
106	29	65.9	764	1	US-08-375-300-4	Sequence 4, Appl1	179	28	63.6	490	2	US-10-115-123-250	Sequence 250, App
107	29	65.9	764	2	US-09-177-431-4	Sequence 4, Appl1	180	28	63.6	490	2	US-10-115-123-518	Sequence 518, App
108	29	65.9	764	4	PCT-US95-16930-4	Sequence 1, Appl1	181	28	63.6	492	2	US-09-794-236-6	Sequence 2, Appl1
109	29	65.9	849	4	US-09-792-024-119	Sequence 119, App	182	28	63.6	492	2	US-09-345-469-1	Sequence 1, Appl1
110	29	65.9	1089	1	US-08-375-300-2	Sequence 2, Appl1	183	28	63.6	502	2	US-09-543-681A-5515	Sequence 5515, Ap
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114	29	65.9	1285	2	US-08-912-951-314	Sequence 314, App	187	28	63.6	515	2	US-10-012-542-219	Sequence 219, App
115	29	65.9	1285	2	US-09-402-181B-600	Sequence 600, App	188	28	63.6	515	2	US-10-115-123-219	Sequence 219, App
116	29	65.9	1285	2	US-09-721-456-600	Sequence 600, App	189	28	63.6	537	2	US-09-388-413B-6	Sequence 6, Appl1
117	29	65.9	1290	2	US-09-107-433-3399	Sequence 4399, Ap	190	28	63.6	537	2	US-10-233-745-6	Sequence 6, Appl1
118	29	65.9	1303	2	US-09-583-110-5037	Sequence 5037, Ap	191	28	63.6	567	2	US-09-252-991A-23004	Sequence 23004, A
119	28	63.6	97	2	US-09-107-532A-5368	Sequence 5368, Ap	192	28	63.6	584	2	US-09-911-909B-14	Sequence 14, Appl1
120	28	63.6	109	2	US-09-198-452A-130	Sequence 130, App	193	28	63.6	619	2	US-10-104-047-2472	Sequence 2472, Ap
121	28	63.6	117	2	US-09-438-185A-114	Sequence 114, App	194	28	63.6	636	2	US-09-248-796A-14866	Sequence 14866, Ap
122	28	63.6	139	2	US-09-621-976-3977	Sequence 3977, Ap	195	28	63.6	636	2	US-10-104-047-3666	Sequence 3666, Ap
123	28	63.6	143	2	US-09-543-681A-7390	Sequence 7390, Ap	196	28	63.6	652	2	US-08-987-123-2	Sequence 2, Appl1
124	28	63.6	185	2	US-09-710-279-3064	Sequence 3064, Ap	197	28	63.6	652	2	US-09-583-110-4417	Sequence 4417, Ap
125	28	63.6	185	2	US-09-252-991A-21914	Sequence 21914, A	198	28	63.6	652	2	US-09-769-787-26	Sequence 26, Appl1
126	28	63.6	190	1	US-08-824-873-1	Sequence 1, Appl1	199	28	63.6	654	2	US-09-107-433-3687	Sequence 3687, Ap
127	28	63.6	190	2	US-09-198-184-1	Sequence 1, Appl1	200	28	63.6	656	2	US-09-134-001C-4322	Sequence 4322, Ap
128	28	63.6	191	2	US-09-075-454-3	Sequence 3, Appl1	201	28	63.6	667	2	US-09-248-796A-19663	Sequence 19663, A
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130	28	63.6	192	2	US-09-255-920A-5	Sequence 5, Appl1	203	28	63.6	699	2	US-09-134-000C-4499	Sequence 4499, Ap
131	28	63.6	202	2	US-09-255-920A-11	Sequence 11, Appl1	204	28	63.6	727	2	US-09-252-991A-26100	Sequence 26100, A
132	28	63.6	203	2	US-09-583-110-5053	Sequence 5053, Ap	205	28	63.6	766	2	US-09-463-338-6	Sequence 6, Appl1
133	28	63.6	211	2	US-09-107-433-3005	Sequence 3005, Ap	206	28	63.6	830	2	US-09-252-991A-28961	Sequence 28961, A
134	28	63.6	216	2	US-09-255-920A-14	Sequence 14, Appl1	207	28	63.6	833	2	US-09-489-039A-13397	Sequence 13397, A
135	28	63.6	223	2	US-09-817-199-2	Sequence 2, Appl1	208	28	63.6	1049	2	US-10-018-730A-4	Sequence 4, Appl1
136	28	63.6	223	2	US-09-817-199-4	Sequence 4, Appl1	209	28	63.6	1139	2	US-09-208-742-2	Sequence 2, Appl1
137	28	63.6	244	2	US-09-107-532A-4839	Sequence 4839, Ap	210	28	63.6	1139	2	US-09-332-295-4	Sequence 4, Appl1
138	28	63.6	247	2	US-09-991-181-303	Sequence 303, App	211	28	63.6	1139	2	US-09-709-979-4	Sequence 4, Appl1
139	28	63.6	247	2	US-09-990-444-303	Sequence 303, App	212	28	63.6	1139	2	US-10-147-268-4	Sequence 4, Appl1
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141	28	63.6	247	2	US-09-992-598-303	Sequence 303, App	214	28	63.6	2008	2	US-09-270-767-46774	Sequence 46774, A
142	28	63.6	249	2	US-09-583-110-1182	Sequence 4182, App	215	28	63.6	2375	2	US-09-538-092-1131	Sequence 1131, Ap
143	28	63.6	269	2	US-09-902-540-16003	Sequence 16003, A	216	28	63.6	2476	2	US-09-824-574-7	Sequence 7, Appl1
144	28	63.6	279	1	US-09-270-767-46255	Sequence 46255, A	217	27	61.4	71	2	US-09-134-001C-4660	Sequence 4660, Ap
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146	28	63.6	292	1	US-08-464-517-38	Sequence 38, Appl1	219	27	61.4	115	2	US-09-270-767-59849	Sequence 59849, A
147	28	63.6	292	1	US-08-246-361A-38	Sequence 38, Appl1	220	27	61.4	118	2	US-09-540-236-2948	Sequence 2948, Ap
148	28	63.6	292	2	US-08-463-772-38	Sequence 38, Appl1	221	27	61.4	132	2	US-09-270-767-33195	Sequence 33195, A
149	28	63.6	292	2	US-09-538-092-1238	Sequence 138, Ap	222	27	61.4	132	2	US-09-370-767-48412	Sequence 48412, A
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152	28	63.6	300	2	US-09-949-016-11725	Sequence 11725, A	225	27	61.4	191	2	US-09-902-540-10003	Sequence 10003, A
153	28	63.6	305	2	US-09-538-092-771	Sequence 771, App	226	27	61.4	199	2	US-09-902-540-10589	Sequence 10589, A
154	28	63.6	305	2	US-09-487-558B-262	Sequence 262, App	227	27	61.4	200	2	US-09-107-532A-4846	Sequence 4846, Ap
155	28	63.6	308	2	US-09-584-568C-8	Sequence 8, Appl1	228	27	61.4	200	2	US-09-902-540-13107	Sequence 13107, A
156	28	63.6	340	2	US-09-543-681A-7989	Sequence 7989, Ap	229	27	61.4	225	2	US-10-104-047-2924	Sequence 2924, Ap
157	28	63.6	342	2	US-09-949-016-10797	Sequence 10797, A	230	27	61.4	225	2	US-09-252-991A-27421	Sequence 27421, A
158	28	63.6	344	2	US-09-134-001C-5343	Sequence 5343, Ap	231	27	61.4	228	2	US-09-489-039A-7761	Sequence 7761, Ap
159	28	63.6	373	2	US-08-685-466C-2	Sequence 2, Appl1	232	27	61.4	228	2	US-10-200-012-44	Sequence 44, Appl1
160	28	63.6	373	2	US-09-107-532A-6660	Sequence 6660, Ap	233	27	61.4	234	2	US-09-252-991A-21668	Sequence 21668, A
161	28	63.6	377	1	US-08-839-581A-31	Sequence 31, Appl1	234	27	61.4	239	2	US-09-489-039A-11136	Sequence 11136, A
162	28	63.6	377	2	US-09-023-591A-31	Sequence 31, Appl1	235	27	61.4	266	2	US-09-248-796A-18900	Sequence 18900, A
163	28	63.6	408	2	US-09-252-991A-30278	Sequence 30278, A	236	27	61.4	273	2	US-09-107-433-2932	Sequence 2932, Ap
164	28	63.6	408	2	US-09-107-532A-6253	Sequence 6253, Ap	237	27	61.4	275	2	US-09-270-767-48250	Sequence 48250, Ap
165	28	63.6	416	2	US-09-489-039A-11612	Sequence 11612, A	238	27	61.4	280	2	US-09-489-039A-18623	Sequence 18623, A
166	28	63.6	436	2	US-09-543-681A-4395	Sequence 4395, Ap	239	27	61.4	288	2	US-09-583-110-3904	Sequence 3904, Ap
167	28	63.6	444	2	US-10-363-937-14	Sequence 14, Appl1	240	27	61.4	291	2	US-09-107-532A-5063	Sequence 5063, Ap
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169	28	63.6	450	2	US-09-518-657-4	Sequence 4, Appl1	242	27	61.4	302	2	US-09-248-796A-18125	Sequence 18125, A
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171	28	63.6	472	2	US-09-605-703B-1400	Sequence 1400, Ap	244	27	61.4	307	2	US-09-583-110-5224	Sequence 5224, Ap
172	28	63.6	472	2	US-09-605-703B-1426	Sequence 1426, Ap	245	27	61.4	309	2	US-09-270-767-43985	Sequence 43985, A
173	28	63.6	472	2	US-09-605-703B-1428	Sequence 1428, Ap	246	27	61.4	310	2	US-09-543-681A-6311	Sequence 6311, Ap

247	27	61.4	310	2	US-09-602-777A-328	Sequence 328, App	320	27	61.4	719	2	US-08-851-843A-7	Sequence 7, Appli
248	27	61.4	311	2	US-09-828-523A-86	Sequence 86, Appl	321	27	61.4	719	2	US-08-974-549A-219	Sequence 219, App
249	27	61.4	323	2	US-09-134-000C-5528	Sequence 5528, Ap	322	27	61.4	719	2	US-08-854-050-7	Sequence 7, Appli
250	27	61.4	329	2	US-10-159-901-33	Sequence 33, Appl	323	27	61.4	719	2	US-09-430-323-7	Sequence 7, Appli
251	27	61.4	329	2	US-10-159-901-34	Sequence 34, Appl	324	27	61.4	719	2	US-09-402-181B-219	Sequence 219, App
252	27	61.4	329	2	US-10-159-901-55	Sequence 55, Appl	325	27	61.4	719	2	US-09-721-456-219	Sequence 7, Appli
253	27	61.4	333	2	US-09-107-532A-041	Sequence 4041, Ap	326	27	61.4	719	2	US-10-054-295-7	Sequence 7, Appli
254	27	61.4	341	2	US-09-543-681A-5975	Sequence 5975, Ap	327	27	61.4	719	2	US-09-438-486A-7	Sequence 7, Appli
255	27	61.4	347	2	US-09-583-110-4767	Sequence 4767, Ap	328	27	61.4	719	2	US-09-252-991A-17874	Sequence 17874, A
256	27	61.4	368	2	US-09-489-039A-9556	Sequence 9556, Ap	329	27	61.4	725	2	US-09-392-714-20	Sequence 20, Appl
257	27	61.4	368	2	US-09-107-433-3979	Sequence 5837, Ap	330	27	61.4	754	2	US-09-002-285-86	Sequence 86, Appl
258	27	61.4	369	2	US-09-107-433-3979	Sequence 3979, Ap	331	27	61.4	759	2	US-09-589-477-86	Sequence 86, Appl
259	27	61.4	375	2	US-09-902-540-1050	Sequence 1050, A	332	27	61.4	759	2	US-10-039-285A-86	Sequence 2, Appli
260	27	61.4	375	2	US-09-949-016-10691	Sequence 10691, A	333	27	61.4	773	2	US-09-307-106-54	Sequence 54, Appl
261	27	61.4	379	2	US-09-634-238-244	Sequence 244, App	335	27	61.4	787	2	US-08-471-033-39	Sequence 29, Appl
262	27	61.4	386	2	US-09-820-005-2	Sequence 2, Appli	336	27	61.4	789	1	US-08-471-033-32	Sequence 32, Appl
263	27	61.4	386	2	US-10-109-856-2	Sequence 2, Appli	337	27	61.4	789	1	US-08-471-044-32	Sequence 29, Appl
264	27	61.4	386	2	US-09-248-796A-15067	Sequence 15067, A	338	27	61.4	789	1	US-08-471-044-32	Sequence 29, Appl
265	27	61.4	386	2	US-10-767-341-2	Sequence 2, Appli	339	27	61.4	789	1	US-08-463-483A-29	Sequence 32, Appl
266	27	61.4	390	2	US-09-820-005-4	Sequence 4, Appli	340	27	61.4	789	1	US-08-463-483A-32	Sequence 29, Appl
267	27	61.4	390	2	US-10-109-856-4	Sequence 4, Appli	341	27	61.4	789	1	US-08-471-046A-29	Sequence 32, Appl
268	27	61.4	390	2	US-10-418-036-18	Sequence 18, Appl	342	27	61.4	789	1	US-08-471-046A-32	Sequence 29, Appl
269	27	61.4	390	2	US-10-767-341-4	Sequence 4, Appli	343	27	61.4	789	1	US-08-470-566B-29	Sequence 32, Appl
270	27	61.4	391	4	PCT-US91-08177-3	Sequence 3, Appli	344	27	61.4	789	1	US-08-838-219B-2	Sequence 2, Appli
271	27	61.4	392	2	US-09-328-352-6498	Sequence 6498, Ap	345	27	61.4	789	1	US-08-838-219B-4	Sequence 4, Appli
272	27	61.4	392	2	US-09-248-796A-26630	Sequence 26630, A	346	27	61.4	789	1	US-08-838-219B-4	Sequence 29, Appl
273	27	61.4	396	2	US-09-567-458A-5	Sequence 5, Appli	347	27	61.4	789	1	US-08-469-334-32	Sequence 32, Appl
274	27	61.4	405	2	US-09-252-991A-26705	Sequence 26705, A	348	27	61.4	789	1	US-08-469-334-32	Sequence 32, Appl
275	27	61.4	413	2	US-09-270-767-44418	Sequence 44418, A	349	27	61.4	789	2	US-09-300-529-29	Sequence 29, Appl
276	27	61.4	421	2	US-09-489-039A-7983	Sequence 7983, Ap	350	27	61.4	789	2	US-09-300-529-29	Sequence 32, Appl
277	27	61.4	432	2	US-10-360-101-204	Sequence 204, App	351	27	61.4	789	2	US-09-233-336A-2	Sequence 2, Appli
278	27	61.4	434	2	US-09-594-193-7	Sequence 7, Appli	352	27	61.4	789	2	US-09-233-336A-2	Sequence 2, Appli
279	27	61.4	438	2	US-09-543-681A-8327	Sequence 8327, Ap	353	27	61.4	789	2	US-09-233-336A-2	Sequence 4, Appli
280	27	61.4	447	2	US-09-134-001C-4523	Sequence 4523, Ap	354	27	61.4	789	2	US-09-233-752A-2	Sequence 2, Appli
281	27	61.4	449	2	US-09-134-001C-3590	Sequence 3590, Ap	355	27	61.4	789	2	US-09-233-752A-4	Sequence 4, Appli
282	27	61.4	454	2	US-09-543-681A-4265	Sequence 4265, Ap	356	27	61.4	789	2	US-08-960-780-6	Sequence 6, Appli
283	27	61.4	455	2	US-09-248-796A-23277	Sequence 23277, A	357	27	61.4	789	2	US-09-073-898-6	Sequence 6, Appli
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298	27	61.4	511	2	US-10-099-285A-88	Sequence 88, Appl	372	27	61.4	789	2	US-09-589-477-82	Sequence 82, Appl
299	27	61.4	514	2	US-10-029-347-25	Sequence 25, Appl	373	27	61.4	789	2	US-09-589-477-84	Sequence 84, Appl
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401	27	61.4	806	2	US-09-270-767-34213	Sequence 34213, A	474	26	59.1	159	2	US-10-360-101-208	Sequence 208, App
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443	26	59.1	116	2	US-09-583-110-4891	Sequence 4891, App	516	26	59.1	205	2	US-09-921-398-27	Sequence 27, Appli
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450	26	59.1	124	2	US-09-107-433-3333	Sequence 3333, App	523	26	59.1	208	2	US-09-536-784-214	Sequence 214, App
451	26	59.1	129	6	5428135-6	Patent No. 5428135	524	26	59.1	208	2	US-09-765-271-214	Sequence 214, App
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838	26	59.1	3256	2	US-09-919-039-21	Sequence 21, Appl	911	25	56.8	211	2	US-09-270-767-60547	Sequence 60547, A
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842	25	56.8	21	1	US-08-586-772-68	Sequence 68, Appl	915	25	56.8	220	2	US-09-485-885-8	Sequence 8, Appl
843	25	56.8	21	1	US-08-959-512-68	Sequence 68, Appl	916	25	56.8	220	2	US-09-270-767-9168	Sequence 4, Appl
844	25	56.8	21	1	US-09-512-983-68	Sequence 68, Appl	917	25	56.8	220	2	US-09-485-885-16	Sequence 16, Appl
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846	25	56.8	75	2	US-09-513-999C-5127	Sequence 5127, Ap	919	25	56.8	227	2	US-09-107-433-3300	Sequence 3300, Ap
847	25	56.8	80	2	US-09-489-039A-13031	Sequence 13031, A	920	25	56.8	227	2	US-09-107-433-3300	Sequence 3300, Ap
848	25	56.8	81	2	US-09-489-039A-14245	Sequence 14245, A	921	25	56.8	233	2	US-09-134-001C-3845	Sequence 3845, A
849	25	56.8	84	2	US-09-134-000C-6647	Sequence 6647, Ap	922	25	56.8	233	2	US-09-640-211A-614	Sequence 614, App
850	25	56.8	87	2	US-09-371-671B-8	Sequence 8, Appl	923	25	56.8	234	2	US-09-489-039A-9771	Sequence 9771, App
851	25	56.8	92	2	US-09-800-971-11	Sequence 11, Appl	924	25	56.8	236	2	US-09-270-767-44292	Sequence 44292, A
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856	25	56.8	108	2	US-09-732-210-220	Sequence 220, App	929	25	56.8	247	2	US-09-248-796A-20954	Sequence 20954, A
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859	25	56.8	129	2	US-09-509-559B-13	Sequence 13, Appl	932	25	56.8	250	4	US-09-902-540-12415	Sequence 12415, A
860	25	56.8	133	2	US-09-489-039A-10255	Sequence 10255, A	933	25	56.8	252	2	US-09-583-110-2984	Sequence 2984, Ap
861	25	56.8	134	2	US-09-415-522-12	Sequence 12, Appl	934	25	56.8	254	2	US-09-605-703B-2258	Sequence 2258, A
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867	25	56.8	142	2	US-09-448-796A-15390	Sequence 15390, A	940	25	56.8	261	2	US-09-328-352-6699	Sequence 6699, Ap
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869	25	56.8	145	2	US-09-602-787A-330	Sequence 330, App	942	25	56.8	262	2	US-09-270-767-33883	Sequence 33883, A
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871	25	56.8	147	2	US-09-602-787A-332	Sequence 332, App	944	25	56.8	262	2	US-09-540-236-2149	Sequence 2149, Ap
872	25	56.8	148	2	US-09-270-767-31657	Sequence 31657, A	945	25	56.8	262	2	US-09-270-767-45054	Sequence 45054, A
873	25	56.8	152	1	US-07-965-668A-2	Sequence 2, Appl	946	25	56.8	267	2	US-09-489-039A-8492	Sequence 8492, Ap
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885	25	56.8	169	2	US-09-619-380-19	Sequence 19, Appl	958	25	56.8	294	2	US-09-107-433-2750	Sequence 2750, Ap
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898	25	56.8	189	2	US-08-284-667A-52	Sequence 52, Appl	971	25	56.8	311	2	US-08-961-083-184	Sequence 184, App
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980 25 56.8 313 2 US-09-605-703B-294 Sequence 294, App  
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996 25 56.8 345 2 US-09-134-000C-5685 Sequence 8, Appli  
997 25 56.8 346 1 US-08-401-068-8 Sequence 8, Appli  
998 25 56.8 346 1 US-08-846-338-8 Sequence 2, Appli  
999 25 56.8 346 2 US-08-411-768B-2 Sequence 1169, Ap  
1000 25 56.8 346 2 US-09-538-092-1169

## ALIGNMENTS

RESULT 1  
US-08-159-339A-1174  
; Sequence 1174, Application US/08159339A  
; Patent No. 6037135  
; GENERAL INFORMATION:  
; APPLICANT: Kubo, Ralph T.  
; APPLICANT: Grey, Howard M.  
; APPLICANT: Sette, Alessandro  
; APPLICANT: Celis, Esben  
; TITLE OF INVENTION: HLA Binding peptides and Their  
; TITLE OF INVENTION: Uses  
; NUMBER OF SEQUENCES: 1254  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/159,339A  
; FILING DATE: 29-NOV-1993  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/926,666  
; FILING DATE: 07-AUG-1992  
; APPLICATION NUMBER: US 08/027,746  
; FILING DATE: 05-MAR-1993  
; APPLICATION NUMBER: US 08/103,396  
; FILING DATE: 06-AUG-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Weber, Ellen Lauver  
; REGISTRATION NUMBER: 32,762  
; REFERENCE/DOCKET NUMBER: 018623-005030US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 1174:

SEQUENCE CHARACTERISTICS:  
; LENGTH: 15 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-159-339A-1174

Query Match 100.0%; Score 44; DB 2; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.0092;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 5 ELTEVEFEFA 13

RESULT 2  
US-08-247-904B-10  
; Sequence 10, Application US/08247904B  
; Patent No. 5981699  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark  
; APPLICANT: Eckstein, Jens W.  
; APPLICANT: Draketa, Giulio  
; TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Foley, Hoag & Eliot  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII(text)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/247,904B  
; FILING DATE: 23-MAY-1994  
; CLASSIFICATION: 530  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Vincent, Matthew P.  
; REGISTRATION NUMBER: 36,709  
; REFERENCE/DOCKET NUMBER: MIV-029.01  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 832-1000  
; TELEFAX: (617) 832-7000  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 158 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 44; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.12;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 40 ELTEVEFEFA 48

RESULT 3  
US-08-767-942A-19  
; Sequence 19, Application US/08767942A  
; Patent No. 6068982  
; GENERAL INFORMATION:  
; APPLICANT: Rolfe, Mark

APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HONG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029,04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

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Best Local Similarity 100.0%; Pred. No. 0.12;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
DB 40 ELTEVFEEFA 48

RESULT 4  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bournefell, Michael E.  
APPLICANT: Inglis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
TITLE OF INVENTION: Papilloma Virus Proteins  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 44; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
DB 41 ELTEVFEEFA 49

RESULT 5  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 44; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.22;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
DB 151 ELTEVFEEFA 159

RESULT 6  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa

```

; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-23

Query Match          100.0%; Score 44; DB 2; Length 383;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 LITEVFEPFA 9
Db 151 LITEVFEPFA 159

RESULT 7
US-08-159-339A-87
; Sequence 87, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and Their
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
;
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-159-339A-87

Query Match          88.6%; Score 39; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 2 LITEVFEPFA 9
Db 1 LITEVFEPFA 8

RESULT 8
US-09-248-796A-19182
; Sequence 19182, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19182
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Candida albicans
; US-09-248-796A-19182

Query Match          75.0%; Score 33; DB 2; Length 536;
Best Local Similarity 87.5%; Pred. No. 84;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Cy 2 LITEVFEPFA 9
Db 126 LITEVFEPFA 133

RESULT 9
US-09-107-532A-4117
; Sequence 4117, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
```

```
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Atinello, Pamela Denise
; REGISTRATION NUMBER: 40,489
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4117:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 304 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...304
; SEQUENCE DESCRIPTION: SEQ ID NO: 4117:
US-09-107-532A-4117

Query Match          72.5% Score 31; DB 2; Length 304;
Best Local Similarity 66.7% Pred. No. 73;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 9
   ||:||||
DB 282 ELTEIFEPA 290

RESULT 10
US-09-270-767-38165
; Sequence 38165, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 38165
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-38165

Query Match          70.5% Score 31; DB 2; Length 71;
Best Local Similarity 66.7% Pred. No. 24;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 9
   ||:||||
DB 50 QLSNVFEPA 58

RESULT 11
US-09-270-767-53382
; Sequence 53382, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
```

```
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 53382
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-53382

Query Match          70.5% Score 31; DB 2; Length 71;
Best Local Similarity 66.7% Pred. No. 24;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 9
   ||:||||
DB 50 QLSNVFEPA 58

RESULT 12
US-09-286-959B-16
; Sequence 16, Application US/09286959B
; Patent No. 6300131
; GENERAL INFORMATION:
; APPLICANT: Johns Hopkins University
; APPLICANT: Greider, Carol W.
; APPLICANT: Le, Siyuan
; TITLE OF INVENTION: TELOMERASE-ASSOCIATED PROTEINS
; FILE REFERENCE: 07265/157001
; CURRENT APPLICATION NUMBER: US/09/286,959B
; CURRENT FILING DATE: 1999-04-06
; PRIOR APPLICATION NUMBER: 60/080,783
; PRIOR FILING DATE: 1998-04-06
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: BINDING
; LOCATION: (0)...(0)
US-09-286-959B-16

Query Match          70.5% Score 31; DB 2; Length 73;
Best Local Similarity 66.7% Pred. No. 25;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 9
   ||:||||
DB 5 ELQVFEPA 13

RESULT 13
US-09-107-532A-6259
; Sequence 6259, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
```

```
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/107,532A
  FILING DATE: 30-Jun-1998
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: 60/085,598
    FILING DATE: 14 May 1998
    APPLICATION NUMBER: 60/051571
    FILING DATE: July 2, 1997
  ATTORNEY/AGENT INFORMATION:
    NAME: Ariniello, Pamela Demeke
    REGISTRATION NUMBER: 40,489
    REFERENCE/DOCKET NUMBER: GTC-012
  TELECOMMUNICATION INFORMATION:
    TELEPHONE: (781)893-5007
    TELEFAX: (781)893-8277
  INFORMATION FOR SEQ ID NO: 6259:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 117 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
      MOLECULE TYPE: protein
      HYPOTHEetical: YES
      ORIGINAL SOURCE:
        ORGANISM: Enterococcus faecium
      FEATURE:
        NAME/KEY: misc_feature
        LOCATION: (B) LOCATION 1..117
      SEQUENCE DESCRIPTION: SEQ ID NO: 6259:
US-09-107-532A-6259
```

```
Query Match      70.5%; Score 31; DB 2; Length 117;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 ELTEVFPE 7
       :|||||
Db      92 DLTEVFPE 98

RESULT 14
US-09-134-000C-4494
; Sequence 4494, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4494
; LENGTH: 123
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-4494
```

```
Query Match      70.5%; Score 31; DB 2; Length 123;
Best Local Similarity 85.7%; Pred. No. 44;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 ELTEVFPE 7
       :|||||
Db      94 DLTEVFPE 100
```

```
RESULT 15
US-09-134-000C-5796
; Sequence 5796, Application US/09134000C
```

```
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5796
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5796
```

```
Query Match      70.5%; Score 31; DB 2; Length 216;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 ELTEVFPEF 8
       :|||||
Db      13 QLKEVFPEF 20
```

```
RESULT 16
US-08-246-403A-3
; Sequence 3, Application US/08246403A
; Patent No. 5583040
; GENERAL INFORMATION:
; APPLICANT: Kaji, Akira
; TITLE OF INVENTION: Mutation of RepA Protein
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/246,403A
; FILING DATE: 20-MAY-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Svensson, Leonard R.
; REGISTRATION NUMBER: 30330
; REFERENCE/DOCKET NUMBER: 2020-102P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 288 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-246-403A-3
```

```
Query Match      70.5%; Score 31; DB 1; Length 288;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 ELTEVFPEFA 9
       :|||||
Db      59 ELSTVFPEFA 67
```



RESULT 17  
US-08-246-403A-6  
Sequence 6, Application US/08246403A  
Patent No. 5583040  
GENERAL INFORMATION:  
APPLICANT: Kajl, Akira  
TITLE OF INVENTION: Mutation of Repa Protein  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolaesch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/246,403A  
FILING DATE: 20-MAY-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Svensson, Leonard R.  
REGISTRATION NUMBER: 30330  
REFERENCE/DOCKET NUMBER: 2020-102P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-205-8000  
TELEFAX: 703-205-8050  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 288 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-246-403A-6

Query Match 70.5%; Score 31; DB 1; Length 288;  
Best Local Similarity 66.7%; Pred. No. 1.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVFEEA 9  
|||  
Db 59 ELSTFEFA 67

RESULT 18  
US-09-248-796A-25339  
Sequence 25339, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 25339  
LENGTH: 309  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-25339

Query Match 70.5%; Score 31; DB 2; Length 309;

Best Local Similarity 75.0%; Pred. No. 1.2e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEA 8  
|||  
Db 138 ELKDVFEEF 145

RESULT 19  
US-09-328-352-4643  
Sequence 4643, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 4643  
LENGTH: 429  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-4643

Query Match 70.5%; Score 31; DB 2; Length 429;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVFEEA 9  
|||  
Db 135 ELNSVFEEA 143

RESULT 20  
US-08-159-339A-1177  
Sequence 1177, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esben  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993  
APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762

REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1177:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1177

Query Match 68.2%; Score 30; DB 2; Length 8;  
Best Local Similarity 100.0%; Pred. No. 4.6e+05;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 EVPEFA 9  
:|||||  
Db 1 EVPEFA 6

RESULT 21  
US-09-663-600A-213  
Sequence 213, Application US/09663600A  
Patent No. 6573068  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, Jean-Baptiste  
APPLICANT: Duclert, Aymeric  
APPLICANT: Bougueleret, Lydie  
TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS  
FILE REFERENCE: 31.US3.CIP  
CURRENT APPLICATION NUMBER: US/09/663,600A  
CURRENT FILING DATE: 2000-09-15  
PRIOR APPLICATION NUMBER: 09/191,997  
PRIOR FILING DATE: 1998-11-13  
PRIOR APPLICATION NUMBER: 60/066,677  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/069,957  
PRIOR FILING DATE: 1997-12-17  
PRIOR APPLICATION NUMBER: 60/074,121  
PRIOR FILING DATE: 1998-02-09  
PRIOR APPLICATION NUMBER: 60/081,563  
PRIOR FILING DATE: 1998-04-13  
PRIOR APPLICATION NUMBER: 60/096,116  
PRIOR FILING DATE: 1998-08-10  
PRIOR APPLICATION NUMBER: 60/099,273  
PRIOR FILING DATE: 1998-09-04  
NUMBER OF SEQ ID NOS: 229  
SOFTWARE: Patent.pm  
SEQ ID NO 213  
LENGTH: 109  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-663-600A-213

Query Match 68.2%; Score 30; DB 2; Length 109;  
Best Local Similarity 85.7%; Pred. No. 62;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVPE 7  
:|||||  
Db 83 ELTKVEF 89

RESULT 22  
US-09-270-767-33279  
Sequence 33279, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 33279  
LENGTH: 137  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-33279

Query Match 68.2%; Score 30; DB 2; Length 137;  
Best Local Similarity 75.0%; Pred. No. 79;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LTEVPEFA 9  
:|||||  
Db 8 VTEPPEFA 15

RESULT 23  
US-09-270-767-48496  
Sequence 48496, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 48496  
LENGTH: 137  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
US-09-270-767-48496

Query Match 68.2%; Score 30; DB 2; Length 137;  
Best Local Similarity 75.0%; Pred. No. 79;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LTEVPEFA 9  
:|||||  
Db 8 VTEPPEFA 15

RESULT 24  
US-08-187-186A-5  
Sequence 5, Application US/08187186A  
Patent No. 5923572  
GENERAL INFORMATION:  
APPLICANT: Craig A. Rosen, Henrik Olsen,  
APPLICANT: Mark D. Adams, and Ewen Kirkness  
TITLE OF INVENTION: HAEMOPOIETIC MATURATION FACTOR  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GIFFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/187,186A  
FILING DATE: January 25, 1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-46 (PF105)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 141 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-187-186A-5

Query Match 68.2%; Score 30; DB 1; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 25  
US-08-442-497C-9  
Sequence 9, Application US/08442497C  
Patent No. 5986069  
GENERAL INFORMATION:  
APPLICANT: KIRKNESS, ET AL.  
TITLE OF INVENTION: Human Haemopoietic Maturation  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,497C  
FILING DATE: Concurrently  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/187,186  
FILING DATE: 25 JAN 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05186  
FILING DATE: 10 MAY 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-282 (PF105P1)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 141 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-442-497C-9

Query Match 68.2%; Score 30; DB 1; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 26  
US-09-333-033-9  
Sequence 9, Application US/09333033  
Patent No. 6346246  
GENERAL INFORMATION:  
APPLICANT: Kirkness et al.  
TITLE OF INVENTION: Human Haemopoietic Maturation Factor  
FILE REFERENCE: PF105PID1  
CURRENT APPLICATION NUMBER: US/09/333,033  
CURRENT FILING DATE: 1999-06-15  
PRIOR APPLICATION NUMBER: 08/442,497  
PRIOR FILING DATE: 1995-05-16  
PRIOR APPLICATION NUMBER: 08/187,186  
PRIOR FILING DATE: 1994-01-25  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 9  
LENGTH: 141  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-333-033-9

Query Match 68.2%; Score 30; DB 2; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 27  
US-10-004-832-9  
Sequence 9, Application US/10004832  
Patent No. 6790826  
GENERAL INFORMATION:  
APPLICANT: Kirkness et al.  
TITLE OF INVENTION: Human Haemopoietic Maturation Factor  
FILE REFERENCE: PF105PID2  
CURRENT APPLICATION NUMBER: US/10/004,832  
CURRENT FILING DATE: 2001-12-07  
PRIOR APPLICATION NUMBER: US 09/333,033  
PRIOR FILING DATE: 1999-06-15  
PRIOR APPLICATION NUMBER: US 08/442,497  
PRIOR FILING DATE: 1995-05-16  
PRIOR APPLICATION NUMBER: US 08/187,186  
PRIOR FILING DATE: 1994-01-25  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 9  
LENGTH: 141  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-004-832-9

Query Match 68.2%; Score 30; DB 2; Length 141;  
Best Local Similarity 85.7%; Pred. No. 82;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
|||:||||  
Db 116 ELTKVFE 122

RESULT 28  
US-08-187-186A-2  
Sequence 2, Application US/08187186A  
Patent No. 5922572  
GENERAL INFORMATION:  
APPLICANT: Craig A. Rosen, Henrik Olsen;  
APPLICANT: Mark D. Adams; and Ewen Kirkness  
TITLE OF INVENTION: HAEMOPOIETIC MATURATION FACTOR  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/187,186A  
FILING DATE: January 25, 1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-46 (PF105)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 142 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-187-186A-2

Query Match 68.2%; Score 30; DB 1; Length 142;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
Db 116 ELTKVFE 122

RESULT 29  
US-08-442-497C-2  
Sequence 2, Application US/08442497C  
Patent No. 5986069  
GENERAL INFORMATION:  
APPLICANT: KIRKNESS, ET AL.  
TITLE OF INVENTION: Human Haemopoietic Maturation  
Factor  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
ADDRESSEE: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,497C  
FILING DATE: Concurrently  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/187,186  
FILING DATE: 25 JAN 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05186  
FILING DATE: 10 MAY 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: MULLINS, J.G.  
REGISTRATION NUMBER: 33,073  
REFERENCE/DOCKET NUMBER: 325800-282 (PF105P1)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 142 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
US-08-442-497C-2

Query Match 68.2%; Score 30; DB 1; Length 142;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
Db 116 ELTKVFE 122

RESULT 30  
US-09-333-033-2  
Sequence 2, Application US/09333033  
Patent No. 6346246  
GENERAL INFORMATION:  
APPLICANT: Kirkness et al.  
TITLE OF INVENTION: Human Haemopoietic Maturation Factor  
FILE REFERENCE: PF105P1D1  
CURRENT APPLICATION NUMBER: US/09/333,033  
CURRENT FILING DATE: 1999-06-15  
PRIOR APPLICATION NUMBER: 08/442,497  
PRIOR FILING DATE: 1995-05-16  
PRIOR APPLICATION NUMBER: 08/187,186  
PRIOR FILING DATE: 1994-01-25  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO: 2  
LENGTH: 142  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-333-033-2

Query Match 68.2%; Score 30; DB 2; Length 142;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
Db 116 ELTKVFE 122

RESULT 31  
US-09-663-600A-229  
Sequence 229, Application US/09663600A  
Patent No. 6573068  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, Jean-Baptiste  
APPLICANT: Duclert, Aymeric

```
; APPLICANT: Bouguetel, Lydie
; TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
; FILE REFERENCE: 31.US3.CIP
; CURRENT APPLICATION NUMBER: US/09/663,600A
; CURRENT FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: 09/191,997
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/099,273
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: Patent.pm
; SEQ ID NO 229
; LENGTH: 142
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-663-600A-229

Query Match      68.2%; Score 30; DB 2; Length 142;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFE 7
        |||:||||
Db      116 ELTKVFE 122

RESULT 32
US-10-004-832-2
; Sequence 2, Application US/10004832
; Patent No. 6790826
; GENERAL INFORMATION:
; APPLICANT: KIRKNESS et al.
; TITLE OF INVENTION: Human Haemopoietic Maturation Factor
; FILE REFERENCE: PFI05P1D2
; CURRENT APPLICATION NUMBER: US/10/004,832
; CURRENT FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: US 09/333,033
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: US 08/442,497
; PRIOR FILING DATE: 1995-05-16
; PRIOR APPLICATION NUMBER: US 08/187,186
; PRIOR FILING DATE: 1994-01-25
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 142
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-004-832-2

Query Match      68.2%; Score 30; DB 2; Length 142;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFE 7
        |||:||||
Db      116 ELTKVFE 122

RESULT 33
PCT-US94-05186-2
; Sequence 2, Application PCT/TUS9405186
; GENERAL INFORMATION:
```

```
; APPLICANT: KIRKNESS, ET AL.
; TITLE OF INVENTION: Haemopoietic Maturation Factor
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/05186
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/187,186
; FILING DATE: 25 JANUARY 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-46
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 142 AMINO ACIDS
; TYPE: AMINO ACID
; STRANDEDNESS:
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PROTEIN
; PCT-US94-05186-2
```

```
Query Match      68.2%; Score 30; DB 4; Length 142;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFE 7
        |||:||||
Db      116 ELTKVFE 122

RESULT 34
US-09-949-016-11009
; Sequence 11009, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11009
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-11009
```

Query Match 68.2%; Score 30; DB 2; Length 143;  
Best Local Similarity 85.7%; Pred. No. 83;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 7  
|:|:|:|  
Db 117 ELTKVFE 123

RESULT 35  
US-09-949-016-7648  
; Sequence 7648, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7648  
; LENGTH: 157  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-7648

Query Match 68.2%; Score 30; DB 2; Length 157;  
Best Local Similarity 85.7%; Pred. No. 92;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 7  
|:|:|:|  
Db 131 ELTKVFE 137

RESULT 36  
US-10-104-047-2458  
; Sequence 2458, Application US/10104047  
; Patent No. 6943241  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: NO. 6943241el full length CDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2458  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-2458

Query Match 68.2%; Score 30; DB 2; Length 311;  
Best Local Similarity 66.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 9  
|:|:|:|  
Db 37 ENSLEFEFA 45

RESULT 37

US-09-252-991A-17899  
; Sequence 17899, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17899  
; LENGTH: 323  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17899

Query Match 68.2%; Score 30; DB 2; Length 323;  
Best Local Similarity 75.0%; Pred. No. 2e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 8  
|:|:|:|  
Db 149 ELTEAF 156

RESULT 38  
US-09-328-352-7138  
; Sequence 7138, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 7138  
; LENGTH: 327  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-7138

Query Match 68.2%; Score 30; DB 2; Length 327;  
Best Local Similarity 75.0%; Pred. No. 2e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 8  
|:|:|:|  
Db 75 ELTSYFEF 82

RESULT 39  
US-09-134-000C-6752  
; Sequence 6752, Application US/09134000C  
; Patent No. 6617156  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; FILE REFERENCE: 032796-032  
; CURRENT APPLICATION NUMBER: US/09/134,000C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/055,778  
; PRIOR FILING DATE: 1997-08-15  
; NUMBER OF SEQ ID NOS: 6812  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6752

```
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6752

Query Match      68.2%; Score 30; DB 2; Length 356;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ELTEVEPEF 8
       :|:|:|
Db      34 DLDEIFEF 41

RESULT 40
US-09-902-540-13185
; Sequence 13185, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 13185
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-13185

Query Match      68.2%; Score 30; DB 2; Length 365;
Best Local Similarity 85.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      2 LTEVEPEF 8
       :|:|:|
Db      65 LNEVEPEF 71

RESULT 41
US-09-270-767-35242
; Sequence 35242, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35242
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35242

Query Match      68.2%; Score 30; DB 2; Length 455;
Best Local Similarity 44.4%; Pred. No. 2.9e+02;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ELTEVEPEF 9
       :|:|:|
Db      108 KLTDIYQFA 116
```

```
RESULT 42
US-09-270-767-50459
; Sequence 50459, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 50459
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-50459

Query Match      68.2%; Score 30; DB 2; Length 455;
Best Local Similarity 44.4%; Pred. No. 2.9e+02;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ELTEVEPEF 9
       :|:|:|
Db      108 KLTDIYQFA 116

RESULT 43
US-09-252-991A-16965
; Sequence 16965, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16965
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16965

Query Match      68.2%; Score 30; DB 2; Length 696;
Best Local Similarity 62.5%; Pred. No. 4.6e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ELTEVEPEF 8
       :|:|:|
Db      263 EIAELPEF 270

RESULT 44
US-09-538-092-225
; Sequence 225, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Gioc, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
```

PRIOR FILING DATE: 1999-04-01  
PRIOR APPLICATION NUMBER: 60/178,965  
PRIOR FILING DATE: 2000-02-01  
NUMBER OF SEQ ID NOS: 1387  
SOFTWARE: CuratSeqFormatter Version 0.9  
SEQ ID NO: 225  
LENGTH: 733  
TYPE: PRT  
ORGANISM: Saccharomyces cerevisiae  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (0)...(0)  
OTHER INFORMATION: Polypeptide Accession Number YEL053C  
US-09-538-092-225

Query Match 68.2%; Score 30; DB 2; Length 733;  
Best Local Similarity 75.0%; Pred. No. 4.9e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 LTVVEEPA 9  
Db 551 LIEVFOFA 558

RESULT 45  
US-09-585-858-15  
Sequence 15, Application US/09585858  
Patent No. 6492161  
GENERAL INFORMATION:  
APPLICANT: Sigridur Hjorleifsdottir  
APPLICANT: Gudmundur O. Hreggvidsson  
APPLICANT: Olafur H. Fridjonsson  
APPLICANT: Arnthor Aevareason  
APPLICANT: Jakob K. Kristjansson  
TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic  
FILE REFERENCE: 2739.1001-001  
CURRENT APPLICATION NUMBER: US/09/585,858  
CURRENT FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 60/137,120  
PRIOR FILING DATE: 1999-06-02  
NUMBER OF SEQ ID NOS: 73  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 15  
LENGTH: 764  
TYPE: PRT  
ORGANISM: Herpesvirus saimiri (strain 11)  
US-09-585-858-15

Query Match 68.2%; Score 30; DB 2; Length 764;  
Best Local Similarity 75.0%; Pred. No. 5.1e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEEF 8  
Db 121 ENTEVEEF 128

RESULT 46  
US-10-270-878-15  
Sequence 15, Application US/10270878  
Patent No. 6818425  
GENERAL INFORMATION:  
APPLICANT: Sigridur Hjorleifsdottir  
APPLICANT: Gudmundur O. Hreggvidsson  
APPLICANT: Olafur H. Fridjonsson  
APPLICANT: Arnthor Aevareason  
APPLICANT: Jakob K. Kristjansson  
TITLE OF INVENTION: Bacteriophage RM378 of a Thermophilic  
FILE REFERENCE: 2739.1001-001  
CURRENT APPLICATION NUMBER: US/10/270,878  
CURRENT FILING DATE: 2002-10-11

PRIOR APPLICATION NUMBER: US/09/585,858  
PRIOR FILING DATE: 2000-12-18  
NUMBER OF SEQ ID NOS: 73  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 15  
LENGTH: 764  
TYPE: PRT  
ORGANISM: Herpesvirus saimiri (strain 11)  
US-10-270-878-15

Query Match 68.2%; Score 30; DB 2; Length 764;  
Best Local Similarity 75.0%; Pred. No. 5.1e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEEF 8  
Db 121 ENTEVEEF 128

RESULT 47  
US-08-680-326-31  
Sequence 31, Application US/08680326  
Patent No. 5925733  
GENERAL INFORMATION:  
APPLICANT: ROSE, TIMOTHY M.  
APPLICANT: BOSCH, MARINIX  
APPLICANT: STRAND, KURT  
APPLICANT: TODARO, GEORGE J.  
TITLE OF INVENTION: DNA POLYMERASE OF GAMMA HERPES VIRUSES  
TITLE OF INVENTION: ASSOCIATED WITH KAPOSI'S SARCOMA AND RETROPERITONEAL  
NUMBER OF SEQUENCES: 152  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORRISON & FOERSTER  
STREET: 755 Page Mill Road  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1018  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/680,326  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Schiff, J. Michael  
REGISTRATION NUMBER: 40,253  
REFERENCE/DOCKET NUMBER: 29938-20001.00  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 813-5600  
TELEFAX: (415) 494-0792  
TELEX: 706141  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1009 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-680-326-31

Query Match 68.2%; Score 30; DB 1; Length 1009;  
Best Local Similarity 75.0%; Pred. No. 6.9e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEEF 8  
Db 336 ENTEVEEF 343



RESULT 48  
US-09-949-016-7109  
Sequence 7109, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: C1001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
PRIOR FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 7109  
LENGTH: 1395  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-7109

Query Match  
Best Local Similarity 68.2%; Score 30; DB 2; Length 1395;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEEP 8  
||:||||  
DB 564 ELSDVDF 571

RESULT 49  
US-08-383-753-59  
Sequence 59, Application US/08383753  
Patent No. 5723584  
GENERAL INFORMATION:  
APPLICANT: Schatz, Peter J.  
TITLE OF INVENTION: Biotinylation of Proteins  
NUMBER OF SEQUENCES: 102  
CORRESPONDENCE ADDRESS:  
ADDRESS: Townsend and Townsend Kourie and Crew  
STREET: One Market Plaza, Stewart Tower  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/383,753  
FILING DATE: 03-FEB-1995  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/099,991  
FILING DATE: 30-JUL-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, William M.  
REGISTRATION NUMBER: 30,223  
REFERENCE/DOCKET NUMBER: 1038.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 59:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 amino acids  
TYPE: amino acid  
STRANDEDNESS: single

TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-383-753-59

Query Match  
Best Local Similarity 65.9%; Score 29; DB 1; Length 18;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEEP 7  
||:||||  
DB 3 KLTRIFE 9

RESULT 50  
US-08-586-772-59  
Sequence 59, Application US/08586772  
Patent No. 5874239  
GENERAL INFORMATION:  
APPLICANT: Schatz, Peter J.  
TITLE OF INVENTION: Biotinylation of Proteins  
NUMBER OF SEQUENCES: 102  
CORRESPONDENCE ADDRESS:  
ADDRESS: Townsend and Townsend Kourie and Crew  
STREET: One Market Plaza, Stewart Tower  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/586,772  
FILING DATE: 03-FEB-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/099,991  
FILING DATE: 30-JUL-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Smith, William M.  
REGISTRATION NUMBER: 30,223  
REFERENCE/DOCKET NUMBER: 1038.1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2422  
TELEFAX: 415-326-2400  
INFORMATION FOR SEQ ID NO: 59:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-586-772-59

Query Match  
Best Local Similarity 71.4%; Score 29; DB 1; Length 18;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEEP 7  
||:||||  
DB 3 KLTRIFE 9

Search completed: May 5, 2006, 01:38:04  
Job time : 24.2 secs

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GenCore version 5.1.7  
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OM protein - protein search, using sw model

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(without alignments)  
55.139 Million cell updates/sec

Title: US-08-170-344-26

Perfect score: 44

Sequence: 1 ELTFVFEFA 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Published Applications\_AA\_Main:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	44	100.0	42	5	US-10-751-845-152 Sequence 152, App
3	44	100.0	119	5	US-10-751-845-159 Sequence 159, App
4	44	100.0	158	5	US-10-800-023-27 Sequence 27, App
5	44	100.0	158	6	US-11-021-949-28 Sequence 28, App
6	44	100.0	172	4	US-10-472-724-6 Sequence 6, App
7	44	100.0	236	5	US-10-751-845-157 Sequence 157, App
8	44	100.0	237	5	US-10-751-845-158 Sequence 158, App
9	44	100.0	261	5	US-10-751-845-160 Sequence 160, App
10	44	100.0	278	4	US-10-000-903-21 Sequence 21, App
11	44	100.0	278	5	US-10-899-771-21 Sequence 21, App
12	44	100.0	383	4	US-10-000-903-23 Sequence 23, App
13	44	100.0	383	4	US-10-899-771-23 Sequence 23, App
14	40	90.9	10	5	US-10-751-845-136 Sequence 136, App
15	37	84.1	10	5	US-10-751-845-127 Sequence 127, App
16	37	84.1	322	4	US-10-321-204-36 Sequence 36, App
17	35	79.5	244	4	US-10-382-122A-50681 Sequence 50681, A
18	34	77.3	336	4	US-09-815-242-13832 Sequence 13832, A
19	34	77.3	336	4	US-10-282-122A-74880 Sequence 74880, A
20	34	77.3	336	4	US-10-282-122A-76245 Sequence 76245, A
21	34	77.3	344	4	US-10-282-122A-73043 Sequence 73043, A
22	34	77.3	346	4	US-09-815-242-10162 Sequence 10162, A
23	34	77.3	346	4	US-10-369-493-833 Sequence 833, App
24	34	77.3	346	4	US-10-282-122A-55648 Sequence 55648, A
25	33	75.0	139	4	US-10-767-701-52361 Sequence 52361, A
26	33	75.0	180	4	US-10-425-115-192145 Sequence 192145, A
27	33	75.0	299	4	US-10-282-122A-71438 Sequence 71438, A

28	33	75.0	712	3	US-09-893-519A-35 Sequence 35, App
29	33	75.0	722	4	US-10-032-585-7153 Sequence 7153, App
30	32	72.7	104	4	US-10-425-115-229096 Sequence 229096, A
31	32	72.7	158	6	US-11-021-949-29 Sequence 29, App
32	32	72.7	158	6	US-11-021-949-30 Sequence 30, App
33	32	72.7	158	6	US-11-021-949-31 Sequence 31, App
34	32	72.7	162	6	US-11-021-949-31 Sequence 31, App
35	32	72.7	441	4	US-10-369-493-18771 Sequence 18771, A
36	32	72.7	454	4	US-10-767-701-41242 Sequence 41242, A
37	32	72.7	478	4	US-10-425-114-38072 Sequence 38072, A
38	32	72.7	496	4	US-10-193-896-11 Sequence 11, App
39	32	72.7	496	4	US-10-369-493-2914 Sequence 2914, App
40	32	72.7	504	4	US-10-425-114-64036 Sequence 64036, A
41	32	72.7	537	4	US-10-425-114-41988 Sequence 41988, A
42	32	72.7	550	4	US-10-425-114-41988 Sequence 291636, A
43	32	72.7	639	4	US-10-425-115-291636 Sequence 265119, A
44	32	72.7	683	4	US-10-425-115-265119 Sequence 1265128, A
45	32	72.7	761	4	US-10-425-115-265128 Sequence 126524, A
46	32	72.7	787	4	US-10-437-963-126523 Sequence 126523, A
47	32	72.7	1053	4	US-10-437-963-164673 Sequence 164673, A
48	32	72.7	1347	4	US-10-437-963-164673 Sequence 3288, App
49	32	72.7	1555	4	US-10-128-714-3298 Sequence 8298, App
50	32	72.7	1832	4	US-10-128-714-3298 Sequence 172229, A
51	31	70.5	56	4	US-10-424-599-172229 Sequence 201802, A
52	31	70.5	144	4	US-10-425-115-269044 Sequence 269044, A
53	31	70.5	233	4	US-10-437-963-504259 Sequence 204259, A
54	31	70.5	283	4	US-10-425-115-347695 Sequence 347695, A
55	31	70.5	283	4	US-10-425-115-347695 Sequence 347698, A
56	31	70.5	299	5	US-10-926-543-53 Sequence 53, App
57	31	70.5	299	5	US-10-450-763-30527 Sequence 30527, A
58	31	70.5	336	3	US-09-815-242-12430 Sequence 12430, A
59	31	70.5	336	4	US-10-282-122A-44155 Sequence 44155, A
60	31	70.5	339	3	US-09-815-242-1496 Sequence 5466, App
61	31	70.5	339	3	US-09-815-242-1496 Sequence 104558, A
62	31	70.5	363	4	US-10-437-963-104558 Sequence 66648, A
63	31	70.5	385	4	US-10-425-114-66548 Sequence 145671, A
64	31	70.5	417	4	US-10-437-963-145671 Sequence 44538, A
65	31	70.5	427	4	US-10-282-122A-44558 Sequence 60, App
66	31	70.5	478	5	US-10-367-057-60 Sequence 22453, A
67	31	70.5	496	5	US-10-733-923-22453 Sequence 36, App
68	31	70.5	1856	5	US-10-922-282-36 Sequence 67, App
69	31	70.5	3414	5	US-10-922-282-66 Sequence 64, App
70	31	70.5	3854	6	US-11-097-143-28104 Sequence 26253, A
71	31	70.5	5385	6	US-11-097-143-28275 Sequence 28128, A
72	31	70.5	5496	6	US-11-097-143-28275 Sequence 66, App
73	31	70.5	8805	6	US-11-097-143-282128 Sequence 67, App
74	30	68.2	16	5	US-10-713-978A-66 Sequence 14, App
75	30	68.2	16	5	US-10-713-978A-67 Sequence 14, App
76	30	68.2	36	3	US-09-733-091-14 Sequence 605, App
77	30	68.2	36	3	US-10-433-970-14 Sequence 605, App
78	30	68.2	37	4	US-10-097-065-605 Sequence 605, App
79	30	68.2	37	4	US-10-372-876-605 Sequence 5767, App
80	30	68.2	66	3	US-09-815-242-14299 Sequence 12429, A
81	30	68.2	71	3	US-09-815-242-14299 Sequence 44530, A
82	30	68.2	101	4	US-10-282-122A-45430 Sequence 725, App
83	30	68.2	109	4	US-09-978-360A-725 Sequence 213, App
84	30	68.2	109	4	US-10-319-763-213 Sequence 10, App
85	30	68.2	109	4	US-10-369-430A-10 Sequence 7340, App
86	30	68.2	120	4	US-10-335-970-7340 Sequence 609, App
87	30	68.2	122	4	US-10-097-065-609 Sequence 609, App
88	30	68.2	122	4	US-10-372-876-609 Sequence 609, App
89	30	68.2	124	4	US-10-425-115-186027 Sequence 186027, A
90	30	68.2	141	4	US-10-004-833-2 Sequence 740, App
91	30	68.2	141	4	US-09-978-360A-740 Sequence 229, App
92	30	68.2	142	4	US-10-004-833-2 Sequence 219, App
93	30	68.2	142	4	US-10-319-763-229 Sequence 219, App
94	30	68.2	142	4	US-10-116-275-219 Sequence 642, App
95	30	68.2	147	5	US-09-925-302-642 Sequence 642, App
96	30	68.2	147	3	US-09-925-302-642 Sequence 319498, A
97	30	68.2	155	4	US-10-425-115-319498 Sequence 32, App
98	30	68.2	160	6	US-11-021-949-32 Sequence 34365, A
99	30	68.2	160	6	US-11-021-949-32 Sequence 34365, A
100	30	68.2	163	3	US-09-864-761-34365 Sequence 34365, A

101	30	68.2	181	4	US-10-424-599-201850	Sequence 201850,	174	29	65.9	236	3	US-09-925-297-649	Sequence 649, App
102	30	68.2	199	4	US-10-437-963-162783	Sequence 162783,	175	29	65.9	238	4	US-10-424-599-260464	Sequence 260464,
103	30	68.2	200	4	US-10-424-599-180025	Sequence 180025,	176	29	65.9	240	4	US-10-264-049-13929	Sequence 13929, App
104	30	68.2	202	4	US-10-437-963-139600	Sequence 139600,	177	29	65.9	243	3	US-09-815-242-10838	Sequence 10838, A
105	30	68.2	209	5	US-10-739-930-5964	Sequence 5964, App	178	29	65.9	243	4	US-10-282-122A-56305	Sequence 56305, A
106	30	68.2	218	5	US-10-739-930-9489	Sequence 9489, App	179	29	65.9	263	4	US-10-470-992-2	Sequence 2, App1
107	30	68.2	221	4	US-10-335-977-7342	Sequence 7342, App	180	29	65.9	281	4	US-10-425-114-73043	Sequence 73043, A
108	30	68.2	222	4	US-10-425-115-349097	Sequence 349097,	181	29	65.9	283	4	US-10-425-115-347699	Sequence 347699, A
109	30	68.2	225	5	US-10-733-923-9060	Sequence 9060, App	182	29	65.9	284	5	US-10-501-282-2976	Sequence 2976, App
110	30	68.2	264	4	US-10-425-115-273370	Sequence 273370,	183	29	65.9	287	4	US-10-501-282-2978	Sequence 2978, App
111	30	68.2	295	4	US-10-437-963-139601	Sequence 139601,	184	29	65.9	288	3	US-09-764-868-979	Sequence 979, App
112	30	68.2	306	4	US-10-282-122A-66872	Sequence 66872, A	185	29	65.9	288	4	US-10-158-057-334	Sequence 334, App
113	30	68.2	311	4	US-10-104-047-2458	Sequence 2458, App	186	29	65.9	305	4	US-10-282-122A-54988	Sequence 54988, A
114	30	68.2	406	5	US-10-733-923-10311	Sequence 10311, A	187	29	65.9	305	4	US-10-437-963-102873	Sequence 102873, A
115	30	68.2	432	4	US-10-369-493-9774	Sequence 9774, App	188	29	65.9	308	4	US-10-289-762-310	Sequence 310, App
116	30	68.2	447	4	US-10-156-761-14785	Sequence 14785, A	189	29	65.9	308	4	US-10-282-122A-54822	Sequence 54822, A
117	30	68.2	492	3	US-09-815-242-11308	Sequence 11308, A	190	29	65.9	310	4	US-10-289-762-864	Sequence 864, App
118	30	68.2	492	3	US-09-733-091-2	Sequence 2, App1	191	29	65.9	314	4	US-10-425-114-57186	Sequence 57186, A
119	30	68.2	492	4	US-10-282-122A-58662	Sequence 58662, A	192	29	65.9	331	4	US-10-369-493-18895	Sequence 18895, A
120	30	68.2	492	4	US-10-433-970-2	Sequence 2, App1	193	29	65.9	334	4	US-10-408-765A-314	Sequence 314, App
121	30	68.2	501	6	US-11-097-143-11853	Sequence 11853, A	194	29	65.9	336	4	US-10-282-122A-60122	Sequence 60122, A
122	30	68.2	504	3	US-09-732-091-42	Sequence 42, App1	195	29	65.9	344	4	US-10-425-115-355912	Sequence 355912, A
123	30	68.2	504	3	US-10-433-970-42	Sequence 42, App1	196	29	65.9	346	5	US-10-584-449-65	Sequence 65, App1
124	30	68.2	551	4	US-10-223-277-3	Sequence 3, App1	197	29	65.9	358	4	US-10-282-122A-70250	Sequence 70250, A
125	30	68.2	591	4	US-10-282-122A-45699	Sequence 45699, A	198	29	65.9	358	4	US-10-282-122A-70471	Sequence 70471, A
126	30	68.2	611	4	US-10-369-493-31052	Sequence 31052, A	199	29	65.9	358	4	US-10-282-122A-71576	Sequence 71576, A
127	30	68.2	615	4	US-10-047-260-30	Sequence 30, App1	200	29	65.9	361	4	US-10-425-115-301229	Sequence 301229, A
128	30	68.2	616	5	US-10-359-493-2638	Sequence 2638, App	201	29	65.9	362	4	US-10-724-972A-5429	Sequence 5429, App
129	30	68.2	618	5	US-10-732-923-18668	Sequence 18668, A	202	29	65.9	370	4	US-10-072-012-625	Sequence 625, App
130	30	68.2	680	4	US-10-282-122A-69670	Sequence 69670, A	203	29	65.9	370	4	US-10-072-012-674	Sequence 674, App
131	30	68.2	680	4	US-10-275-595A-32	Sequence 32, App1	204	29	65.9	373	5	US-10-739-930-9924	Sequence 9924, App
132	30	68.2	682	4	US-10-282-122A-66174	Sequence 66174, A	205	29	65.9	386	6	US-11-097-143-17160	Sequence 17160, A
133	30	68.2	725	5	US-10-732-923-18616	Sequence 18616, A	206	29	65.9	405	3	US-09-799-777-38	Sequence 38, App1
134	30	68.2	764	4	US-10-270-875-15	Sequence 15, App1	207	29	65.9	408	4	US-10-214-446-4	Sequence 4, App1
135	30	68.2	764	4	US-10-270-878-15	Sequence 15, App1	208	29	65.9	417	5	US-10-565-898-67	Sequence 67, App1
136	30	68.2	764	4	US-10-270-786-15	Sequence 15, App1	209	29	65.9	420	4	US-10-282-122A-76802	Sequence 76802, A
137	30	68.2	764	4	US-10-270-710-15	Sequence 15, App1	210	29	65.9	427	4	US-10-369-493-16633	Sequence 16633, A
138	30	68.2	764	4	US-10-270-859-15	Sequence 15, App1	211	29	65.9	445	4	US-10-158-057-271	Sequence 271, App
139	30	68.2	764	4	US-10-270-846-15	Sequence 15, App1	212	29	65.9	482	5	US-10-450-763-39081	Sequence 39081, A
140	30	68.2	806	4	US-10-282-122A-63502	Sequence 63502, A	213	29	65.9	446	6	US-11-097-143-12036	Sequence 12036, A
141	30	68.2	1070	4	US-10-291-265-721	Sequence 721, App	214	29	65.9	478	4	US-10-369-493-4120	Sequence 4120, App
142	30	68.2	1163	4	US-10-122-067-4	Sequence 4, App1	215	29	65.9	487	5	US-10-820-060-8	Sequence 8, App1
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144	30	68.2	1419	6	US-11-097-143-4416	Sequence 4416, App	217	29	65.9	486	5	US-10-684-422-22	Sequence 22, App1
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147	30	68.2	1508	4	US-10-002-769-15	Sequence 15, App1	220	29	65.9	466	5	US-10-820-060-4	Sequence 4, App1
148	30	68.2	1508	4	US-10-024-623-35	Sequence 35, App1	221	29	65.9	504	4	US-10-437-963-202896	Sequence 202896, A
149	30	68.2	1508	4	US-10-154-419-47	Sequence 47, App1	222	29	65.9	505	4	US-10-437-963-147453	Sequence 147453, A
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151	30	68.2	1508	4	US-10-146-733-80	Sequence 80, App1	224	29	65.9	512	4	US-10-326-629A-12	Sequence 12, App1
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153	30	68.2	2570	5	US-10-450-763-56734	Sequence 56734, A	226	29	65.9	544	4	US-10-369-493-114217	Sequence 114217, A
154	29	65.9	18	5	US-10-473-882-59	Sequence 59, App1	227	29	65.9	577	5	US-10-820-060-2	Sequence 2, App1
155	29	65.9	69	4	US-10-424-599-268906	Sequence 268906,	228	29	65.9	577	5	US-10-450-763-39078	Sequence 39078, A
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159	29	65.9	100	5	US-10-732-923-16997	Sequence 16997, A	232	29	65.9	582	4	US-10-408-765A-970	Sequence 970, App
160	29	65.9	106	4	US-10-437-963-139592	Sequence 139592,	233	29	65.9	582	5	US-10-370-7155-718	Sequence 718, App
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165	29	65.9	154	4	US-10-767-701-37792	Sequence 37792, A	238	29	65.9	589	4	US-10-369-493-22184	Sequence 22184, A
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168	29	65.9	167	4	US-10-282-122A-71633	Sequence 71633, A	241	29	65.9	652	6	US-11-097-143-30714	Sequence 30714, A
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259	29	65.9	730	4	US-10-437-963-178936	Sequence 178936, A	332	28	63.6	191	3	US-09-794-257-14	Sequence 14, Appl
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263	29	65.9	800	5	US-10-857-625-649	Sequence 649, App	336	28	63.6	192	4	US-10-087-1902-1719	Sequence 1109, Ap
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283	29	65.9	1285	5	US-10-877-124-600	Sequence 600, App	356	28	63.6	211	5	US-10-617-330-5446	Sequence 3005, Ap
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298	28	63.6	58	5	US-10-644-765-323	Sequence 323, App	371	28	63.6	246	4	US-09-833-245-701	Sequence 701, Appl
299	28	63.6	68	4	US-10-424-599-180030	Sequence 180030, A	372	28	63.6	246	4	US-10-262-839-72	Sequence 2624, Ap
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308	28	63.6	109	4	US-10-389-762-130	Sequence 130, App	381	28	63.6	247	3	US-09-989-723-303	Sequence 303, App
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313	28	63.6	128	4	US-10-425-115-259804	Sequence 182, App	386	28	63.6	247	3	US-09-989-723-303	Sequence 303, App
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317	28	63.6	139	3	US-09-764-868-688	Sequence 59673, A	390	28	63.6	247	3	US-09-989-723-303	Sequence 303, App
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545	28	63.6	247	4	US-10-187-588-228	Sequence 228, App	618	28	63.6	247	4	US-10-184-619-228	Sequence 228, App
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573	28	63.6	247	4	US-10-173-708-228	Sequence 228, App	646	28	63.6	247	4	US-10-199-666-228	Sequence 228, App
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603	28	63.6	247	4	US-10-195-894-228	Sequence 228, App	676	28	63.6	247	4	US-10-197-707-228	Sequence 228, App
604	28	63.6	247	4	US-10-195-894-228	Sequence 228, App	677	28	63.6	247	4	US-10-199-303-228	Sequence 228, App
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606	28	63.6	247	4	US-10-195-894-228	Sequence 228, App	679	28	63.6	247	4	US-10-199-458-228	Sequence 228, App
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688	28	63.6	247	4	US-10-202-411-228	Sequence 228, App	761	28	63.6	247	4	US-10-196-746-228	Sequence 228, App
689	28	63.6	247	4	US-10-202-472-228	Sequence 228, App	762	28	63.6	247	4	US-10-196-752-228	Sequence 228, App
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702	28	63.6	247	4	US-10-205-897-228	Sequence 228, App	775	28	63.6	247	4	US-10-198-767-228	Sequence 228, App
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704	28	63.6	247	4	US-10-180-550-228	Sequence 228, App	777	28	63.6	247	4	US-10-199-307-228	Sequence 228, App
705	28	63.6	247	4	US-10-183-014-228	Sequence 228, App	778	28	63.6	247	4	US-10-199-312-228	Sequence 228, App
706	28	63.6	247	4	US-10-187-738-228	Sequence 228, App	779	28	63.6	247	4	US-10-199-315-228	Sequence 228, App
707	28	63.6	247	4	US-10-187-740-228	Sequence 228, App	780	28	63.6	247	4	US-10-199-316-228	Sequence 228, App
708	28	63.6	247	4	US-10-187-883-228	Sequence 228, App	781	28	63.6	247	4	US-10-199-457-228	Sequence 228, App
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710	28	63.6	247	4	US-10-194-460-228	Sequence 228, App	783	28	63.6	247	4	US-10-199-460-228	Sequence 228, App
711	28	63.6	247	4	US-10-194-463-228	Sequence 228, App	784	28	63.6	247	4	US-10-199-461-228	Sequence 228, App
712	28	63.6	247	4	US-10-194-484-228	Sequence 228, App	785	28	63.6	247	4	US-10-199-667-228	Sequence 228, App
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720	28	63.6	247	4	US-10-199-304-228	Sequence 228, App	793	28	63.6	247	4	US-10-201-769-228	Sequence 228, App
721	28	63.6	247	4	US-10-199-309-228	Sequence 228, App	794	28	63.6	247	4	US-10-201-771-228	Sequence 228, App
722	28	63.6	247	4	US-10-199-313-228	Sequence 228, App	795	28	63.6	247	4	US-10-201-854-228	Sequence 228, App
723	28	63.6	247	4	US-10-199-456-228	Sequence 228, App	796	28	63.6	247	4	US-10-202-410-228	Sequence 228, App
724	28	63.6	247	4	US-10-201-329-228	Sequence 228, App	797	28	63.6	247	4	US-10-202-473-228	Sequence 228, App
725	28	63.6	247	4	US-10-202-412-228	Sequence 228, App	798	28	63.6	247	4	US-10-202-474-228	Sequence 228, App
726	28	63.6	247	4	US-10-206-919-228	Sequence 228, App	799	28	63.6	247	4	US-10-205-503-228	Sequence 228, App
727	28	63.6	247	4	US-10-206-922-228	Sequence 228, App	800	28	63.6	247	4	US-10-205-512-228	Sequence 228, App
728	28	63.6	247	4	US-10-206-924-228	Sequence 228, App	801	28	63.6	247	4	US-10-205-892-228	Sequence 228, App
729	28	63.6	247	4	US-10-206-928-228	Sequence 228, App	802	28	63.6	247	4	US-10-205-894-228	Sequence 228, App
730	28	63.6	247	4	US-10-207-914-228	Sequence 228, App	803	28	63.6	247	4	US-10-205-896-228	Sequence 228, App
731	28	63.6	247	4	US-10-207-921-228	Sequence 228, App	804	28	63.6	247	4	US-10-205-898-228	Sequence 228, App
732	28	63.6	247	4	US-10-207-922-228	Sequence 228, App	805	28	63.6	247	4	US-10-205-901-228	Sequence 228, App
733	28	63.6	247	4	US-10-208-027-228	Sequence 228, App	806	28	63.6	247	4	US-10-205-903-228	Sequence 228, App
734	28	63.6	247	4	US-10-196-757-228	Sequence 228, App	807	28	63.6	247	4	US-10-206-909-228	Sequence 228, App
735	28	63.6	247	4	US-10-196-754-228	Sequence 228, App	808	28	63.6	247	4	US-10-206-910-228	Sequence 228, App
736	28	63.6	247	4	US-10-174-571-228	Sequence 228, App	809	28	63.6	247	4	US-10-206-911-228	Sequence 228, App
737	28	63.6	247	4	US-10-176-746-228	Sequence 228, App	810	28	63.6	247	4	US-10-206-912-228	Sequence 228, App
738	28	63.6	247	4	US-10-176-923-228	Sequence 228, App	811	28	63.6	247	4	US-10-206-913-228	Sequence 228, App
739	28	63.6	247	4	US-10-183-011-228	Sequence 228, App	812	28	63.6	247	4	US-10-206-920-228	Sequence 228, App
740	28	63.6	247	4	US-10-184-633-228	Sequence 228, App	813	28	63.6	247	4	US-10-206-924-228	Sequence 228, App
741	28	63.6	247	4	US-10-184-639-228	Sequence 228, App	814	28	63.6	247	4	US-10-206-921-228	Sequence 228, App
742	28	63.6	247	4	US-10-187-742-228	Sequence 228, App	815	28	63.6	247	4	US-10-206-923-228	Sequence 228, App
743	28	63.6	247	4	US-10-187-748-228	Sequence 228, App	816	28	63.6	247	4	US-10-206-925-228	Sequence 228, App
744	28	63.6	247	4	US-10-188-766-228	Sequence 228, App	817	28	63.6	247	4	US-10-206-926-228	Sequence 228, App
745	28	63.6	247	4	US-10-188-771-228	Sequence 228, App	818	28	63.6	247	4	US-10-206-927-228	Sequence 228, App
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749	28	63.6	247	4	US-10-192-012-228	Sequence 228, App	822	28	63.6	247	4	US-10-207-919-228	Sequence 228, App
750	28	63.6	247	4	US-10-192-014-228	Sequence 228, App	823	28	63.6	247	4	US-10-207-920-228	Sequence 228, App
751	28	63.6	247	4	US-10-192-016-228	Sequence 228, App	824	28	63.6	247	4	US-10-207-925-228	Sequence 228, App
752	28	63.6	247	4	US-10-194-362-228	Sequence 228, App	825	28	63.6	247	4	US-10-208-021-228	Sequence 228, App
753	28	63.6	247	4	US-10-194-364-228	Sequence 228, App	826	28	63.6	247	4	US-10-208-022-228	Sequence 228, App
754	28	63.6	247	4	US-10-194-395-228	Sequence 228, App	827	28	63.6	247	4	US-10-208-023-228	Sequence 228, App
755	28	63.6	247	4	US-10-194-424-228	Sequence 228, App	828	28	63.6	247	4	US-10-208-026-228	Sequence 228, App
756	28	63.6	247	4	US-10-194-458-228	Sequence 228, App	829	28	63.6	247	4	US-10-208-029-228	Sequence 228, App
757	28	63.6	247	4	US-10-194-459-228	Sequence 228, App	830	28	63.6	247	4	US-10-208-030-228	Sequence 228, App



831	28	63.6	247	4	US-10-232-232-228	Sequence 228, App	904	28	63.6	247	4	US-10-173-698-228	Sequence 228, App
832	28	63.6	247	4	US-10-195-898-228	Sequence 228, App	905	28	63.6	247	4	US-10-173-699-228	Sequence 228, App
833	28	63.6	247	4	US-10-196-759-228	Sequence 228, App	906	28	63.6	247	4	US-10-173-707-228	Sequence 228, App
834	28	63.6	247	4	US-10-173-693-228	Sequence 228, App	907	28	63.6	247	4	US-10-174-569-228	Sequence 228, App
835	28	63.6	247	4	US-10-174-578-228	Sequence 228, App	908	28	63.6	247	4	US-10-174-583-228	Sequence 228, App
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838	28	63.6	247	4	US-10-176-968-228	Sequence 228, App	911	28	63.6	247	4	US-10-174-591-228	Sequence 228, App
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841	28	63.6	247	4	US-10-194-360-228	Sequence 228, App	914	28	63.6	247	4	US-10-175-744-228	Sequence 228, App
842	28	63.6	247	4	US-10-194-365-228	Sequence 228, App	915	28	63.6	247	4	US-10-175-748-228	Sequence 228, App
843	28	63.6	247	4	US-10-195-895-228	Sequence 228, App	916	28	63.6	247	4	US-10-175-751-228	Sequence 228, App
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847	28	63.6	247	4	US-10-205-891-228	Sequence 228, App	920	28	63.6	247	4	US-10-176-754-228	Sequence 228, App
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855	28	63.6	247	4	US-10-201-327-228	Sequence 228, App	928	28	63.6	247	4	US-10-179-512-228	Sequence 228, App
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861	28	63.6	247	4	US-10-176-491-228	Sequence 228, App	934	28	63.6	247	4	US-10-174-574-228	Sequence 228, App
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869	28	63.6	247	4	US-10-202-941-228	Sequence 228, App	942	28	63.6	247	4	US-10-179-521-228	Sequence 228, App
870	28	63.6	247	4	US-10-205-910-228	Sequence 228, App	943	28	63.6	247	4	US-10-202-475-228	Sequence 228, App
871	28	63.6	247	4	US-10-179-525-228	Sequence 228, App	944	28	63.6	247	4	US-10-195-887-228	Sequence 228, App
872	28	63.6	247	4	US-10-173-701-228	Sequence 228, App	945	28	63.6	247	4	US-10-195-893-228	Sequence 228, App
873	28	63.6	247	4	US-10-179-511-228	Sequence 228, App	946	28	63.6	247	4	US-10-195-895-228	Sequence 228, App
874	28	63.6	247	4	US-10-179-518-228	Sequence 228, App	947	28	63.6	247	4	US-10-199-466-228	Sequence 228, App
875	28	63.6	247	4	US-10-183-018-228	Sequence 228, App	948	28	63.6	247	4	US-10-199-759-228	Sequence 228, App
876	28	63.6	247	4	US-10-184-624-228	Sequence 228, App	949	28	63.6	247	4	US-10-198-759-228	Sequence 228, App
877	28	63.6	247	4	US-10-184-657-228	Sequence 228, App	950	28	63.6	247	4	US-10-205-506-228	Sequence 228, App
878	28	63.6	247	4	US-10-197-701-228	Sequence 228, App	951	28	63.6	247	4	US-10-174-570-228	Sequence 228, App
879	28	63.6	247	4	US-10-197-706-228	Sequence 228, App	952	28	63.6	247	4	US-10-183-005-228	Sequence 228, App
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884	28	63.6	247	4	US-10-205-508-228	Sequence 228, App	957	28	63.6	247	4	US-10-219-538-228	Sequence 228, App
885	28	63.6	247	4	US-10-205-905-228	Sequence 228, App	958	28	63.6	247	4	US-10-197-709-228	Sequence 228, App
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887	28	63.6	247	4	US-10-208-025-228	Sequence 228, App	960	28	63.6	247	4	US-10-199-670-228	Sequence 228, App
888	28	63.6	247	4	US-10-198-760-228	Sequence 228, App	961	28	63.6	247	4	US-10-201-858-228	Sequence 228, App
889	28	63.6	247	4	US-10-201-772-228	Sequence 228, App	962	28	63.6	247	4	US-10-205-890-228	Sequence 228, App
890	28	63.6	247	4	US-10-184-613-228	Sequence 228, App	963	28	63.6	247	4	US-10-206-024-228	Sequence 228, App
891	28	63.6	247	4	US-10-187-739-228	Sequence 228, App	964	28	63.6	247	4	US-10-201-853-228	Sequence 228, App
892	28	63.6	247	4	US-10-206-907-228	Sequence 228, App	965	28	63.6	247	4	US-10-206-916-228	Sequence 228, App
893	28	63.6	247	4	US-10-183-009-228	Sequence 228, App	966	28	63.6	247	4	US-10-206-916-228	Sequence 228, App
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896	28	63.6	247	4	US-10-187-749-228	Sequence 228, App	969	28	63.6	247	4	US-10-702-578-19	Sequence 19, App
897	28	63.6	247	4	US-10-194-457-228	Sequence 228, App	970	28	63.6	247	4	US-10-183-001-228	Sequence 228, App
898	28	63.6	247	4	US-10-186-642-228	Sequence 228, App	971	28	63.6	247	4	US-10-950-374-303	Sequence 303, App
899	28	63.6	247	4	US-10-194-747-228	Sequence 228, App	972	28	63.6	247	4	US-10-175-749-228	Sequence 228, App
900	28	63.6	247	4	US-10-173-689-228	Sequence 228, App	973	28	63.6	247	4	US-10-180-554-228	Sequence 228, App
901	28	63.6	247	4	US-10-173-690-228	Sequence 228, App	974	28	63.6	247	4	US-10-180-554-228	Sequence 228, App
902	28	63.6	247	4	US-10-173-691-228	Sequence 228, App	975	28	63.6	249	3	US-09-925-301-1430	Sequence 1430, App
903	28	63.6	247	4	US-10-173-694-228	Sequence 228, App	976	28	63.6	249	5	US-10-472-928-4798	Sequence 4798, App

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978 28 63.6 251 5 US-10-702-578-8 Sequence 8, Appli
979 28 63.6 252 4 US-10-423-156-7 Sequence 7, Appli
980 28 63.6 252 4 US-10-423-156-8 Sequence 8, Appli
981 28 63.6 254 5 US-10-702-578-4 Sequence 4, Appli
982 28 63.6 256 4 US-10-473-738-2 Sequence 2, Appli
983 28 63.6 256 4 US-10-425-115-288550 Sequence 288550,
984 28 63.6 258 4 US-10-424-599-259680 Sequence 259680,
985 28 63.6 265 4 US-10-262-839-74 Sequence 74, Appli
986 28 63.6 265 5 US-10-789-378-46 Sequence 46, Appli
987 28 63.6 265 5 US-10-702-578-12 Sequence 12, Appli
988 28 63.6 265 5 US-10-702-578-21 Sequence 21, Appli
989 28 63.6 266 5 US-10-702-578-6 Sequence 6, Appli
990 28 63.6 272 4 US-10-781-014-720 Sequence 720, App
991 28 63.6 283 4 US-10-335-977-6088 Sequence 6088, Ap
992 28 63.6 291 5 US-10-450-763-59675 Sequence 59675, A
993 28 63.6 292 4 US-10-394-322A-10 Sequence 10, Appli
994 28 63.6 292 4 US-10-755-889-670 Sequence 670, App
995 28 63.6 292 5 US-10-733-923-1434 Sequence 1434, Ap
996 28 63.6 293 5 US-10-450-763-36327 Sequence 36327, A
997 28 63.6 294 6 US-11-097-143-27861 Sequence 27861, A
998 28 63.6 301 4 US-10-369-493-6458 Sequence 6458, Ap
999 28 63.6 301 4 US-10-437-963-145060 Sequence 145060,
1000 28 63.6 301 4 US-10-425-115-261825 Sequence 261825,
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## ALIGNMENTS

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RESULT 1
US-10-751-845-133
; Sequence 133, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 133
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-133

Query Match          100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 152
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-152

Query Match          100.0%; Score 44; DB 5; Length 42;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match          100.0%; Score 44; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.65;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
US-10-751-845-152
; Sequence 152, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
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Qy      1 ELTEVEFEFA 9
Db      1 ELTEVEFEFA 9
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Qy      1 ELTEVEFEFA 9
Db      32 ELTEVEFEFA 40
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TITLE OF INVENTION: of the Immune Response Therefrom  
FILE REFERENCE: 600-1-081CONCIP1  
CURRENT APPLICATION NUMBER: US/10/800,023  
CURRENT FILING DATE: 2004-03-14  
PRIOR APPLICATION NUMBER: 09/925,284  
PRIOR FILING DATE: 2001-08-09  
PRIOR APPLICATION NUMBER: 09/586,704  
PRIOR FILING DATE: 2000-06-05  
PRIOR APPLICATION NUMBER: PCT/US96/01383  
PRIOR FILING DATE: 1996-01-31  
PRIOR APPLICATION NUMBER: 08/381,528  
PRIOR FILING DATE: 1995-01-31  
NUMBER OF SEQ ID NOS: 37  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 27  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus E6 protein  
US-10-800-023-27

Query Match 100.0%; Score 44; DB 5; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.87; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEPA 9  
|||||  
DB 40 ELTEVEFEPA 48

RESULT 5  
US-11-021-949-28  
Sequence 28, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
TITLE OF INVENTION: AND METHODS OF THEIR USE  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 28  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-28

Query Match 100.0%; Score 44; DB 6; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.87; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEPA 9  
|||||  
DB 40 ELTEVEFEPA 48

RESULT 6  
US-10-472-724-6  
Sequence 6, Application US/10472724  
Publication No. US20040171806A1  
GENERAL INFORMATION:  
APPLICANT: Cid-Arregui, Angel  
APPLICANT: Zur Hausen, Harald  
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination  
FILE REFERENCE: 4121-154  
CURRENT APPLICATION NUMBER: US/10/472,724

CURRENT FILING DATE: 2003-09-17  
PRIOR APPLICATION NUMBER: PCT/EP02/03271  
PRIOR FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: EP 01107271.7  
PRIOR FILING DATE: 2001-03-23  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 6  
LENGTH: 172  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetic Construct  
US-10-472-724-6

Query Match 100.0%; Score 44; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 0.95; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEPA 9  
|||||  
DB 46 ELTEVEFEPA 54

RESULT 7  
US-10-751-845-157  
Sequence 157, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 157  
LENGTH: 236  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-157

Query Match 100.0%; Score 44; DB 5; Length 236;  
Best Local Similarity 100.0%; Pred. No. 1.3; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0;

QY 1 ELTEVEFEPA 9  
|||||  
DB 149 ELTEVEFEPA 157

RESULT 8  
US-10-751-845-158  
Sequence 158, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05

PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 158  
LENGTH: 237  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-158

Query Match 100.0%; Score 44; DB 5; Length 237;  
Best Local Similarity 100.0%; Pred. No. 1.3;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 150 ELTEVEFEFA 158

RESULT 9  
US-10-751-845-160  
Sequence 160, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NOCLETIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/10/751,845  
PRIOR FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 160  
LENGTH: 261  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 44; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 1.5;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 174 ELTEVEFEFA 182

RESULT 10  
US-10-000-903-21  
Sequence 21, Application US/10000903  
Publication No. US20020182221A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/10/000,903  
CURRENT FILING DATE: 2001-10-01  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 97117953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 44; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 151 ELTEVEFEFA 159

RESULT 11  
US-10-899-771-21  
Sequence 21, Application US/10899771  
Publication No. US20050031638A1  
GENERAL INFORMATION:  
APPLICANT: Dalemans, Wilfried L.J.  
APPLICANT: Gerard, Catherine Marie Ghislaine  
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide  
FILE REFERENCE: B45124  
CURRENT APPLICATION NUMBER: US/10/899,771  
CURRENT FILING DATE: 2004-07-27  
PRIOR APPLICATION NUMBER: US/09/581,976  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: PCT/EP98/08563  
PRIOR FILING DATE: 1998-12-18  
PRIOR APPLICATION NUMBER: GB 9727262.9  
PRIOR FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type  
OTHER INFORMATION: 18)  
US-10-899-771-21

Query Match 100.0%; Score 44; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 151 ELTEVEFEFA 159

RESULT 12  
US-10-000-903-23  
Sequence 23, Application US/10000903  
Publication No. US20020182221A1  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Bernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela

TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/10/000,903  
CURRENT FILING DATE: 2001-10-01  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-000-903-23

Query Match 100.0%; Score 44; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.2; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
|||  
DB 151 ELTEVEFEFA 159

RESULT 13  
US-10-899-771-23  
Sequence 23, Application US/10899771  
Publication No. US20050031638A1

GENERAL INFORMATION:  
APPLICANT: Dalemans, Wilfried L.J.  
APPLICANT: Gerard, Catherine Marie Ghislaine  
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide  
FILE REFERENCE: B45124  
CURRENT APPLICATION NUMBER: US/10/899,771  
CURRENT FILING DATE: 2004-07-27  
PRIOR APPLICATION NUMBER: US/09/581,976  
PRIOR FILING DATE: 2000-06-20  
PRIOR APPLICATION NUMBER: PCT/EP98/08563  
PRIOR FILING DATE: 1998-12-18  
PRIOR APPLICATION NUMBER: GB 9727262.9  
PRIOR FILING DATE: 1997-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus  
OTHER INFORMATION: Influenzae B and E6E7 fusion from Human papilloma  
OTHER INFORMATION: virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 44; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.2; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
|||  
DB 151 ELTEVEFEFA 159

RESULT 14  
US-10-751-845-136  
Sequence 136, Application US/10751845  
Publication No. US20050100928A1

GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 136  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human Papilloma virus  
US-10-751-845-136

Query Match 90.9%; Score 40; DB 5; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.29; Mismatches 0; Indels 0; Gaps 0;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 8  
|||  
DB 3 ELTEVEFE 10

RESULT 15  
US-10-751-845-127  
Sequence 127, Application US/10751845  
Publication No. US20050100928A1

GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chiciz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 127  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human Papilloma virus  
US-10-751-845-127

Query Match 88.6%; Score 39; DB 5; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.46; Mismatches 0; Indels 0; Gaps 0;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEFA 9  
|||  
DB 1 LTEVEFEFA 8

RESULT 16  
US-10-321-204-36  
Sequence 36, Application US/10321204  
Publication No. US20030186871A1

GENERAL INFORMATION:  
APPLICANT: Waters, Steve  
APPLICANT: Moodie, Shonna  
APPLICANT: Lavan, Brian  
APPLICANT: Gustafson, Thomas A.  
APPLICANT: Metabolix, Inc.  
TITLE OF INVENTION: Compositions and Methods for Diagnosing and Treating  
TITLE OF INVENTION: Diabetes, Insulin Resistance and Dyslipidemia

FILE REFERENCE: 016325-007310US  
CURRENT APPLICATION NUMBER: US/10/321,204  
CURRENT FILING DATE: 2002-12-16  
PRIOR APPLICATION NUMBER: US 60/341,451  
PRIOR FILING DATE: 2001-12-17  
NUMBER OF SEQ ID NOS: 66  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 36  
LENGTH: 322  
TYPE: PRT  
ORGANISM: Rattus norvegicus  
US-10-321-204-36

Query Match 84.1% Score 37; DB 4; Length 322;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 8  
Db 279 ELTQVFE 286

RESULT 17  
US-10-282-122A-50681  
Sequence 50681, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:

APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl  
APPLICANT: Zyekind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 50681  
LENGTH: 244  
TYPE: PRT  
ORGANISM: Burkholderia mallei  
US-10-282-122A-50681

Query Match 79.5%; Score 35; DB 4; Length 244;

Best Local Similarity 87.5%; Pred. No. 82;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 8  
Db 139 ELTQVFE 146

RESULT 18  
US-09-815-242-13832  
Sequence 13832, Application US/09815242  
Patent No. US20020061569A1  
GENERAL INFORMATION:

APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl L.  
APPLICANT: Zyekind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard

TITLE OF INVENTION: Identification of Essential Genes in  
FILE REFERENCE: ELITRA.011A  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 14110  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 13832  
LENGTH: 336  
TYPE: PRT  
ORGANISM: Salmonella typhi  
US-09-815-242-13832

Query Match 77.3%; Score 34; DB 3; Length 336;  
Best Local Similarity 66.7%; Pred. No. 1,8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFE 9  
Db 289 ELTQVFE 297

RESULT 19  
US-10-282-122A-74880  
Sequence 74880, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:

APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Karl  
APPLICANT: Zyekind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.

```
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 74880
LENGTH: 336
TYPE: PRT
ORGANISM: Salmonella typhimurium
US-10-282-122A-74880

Query Match      77.3%; Score 34; DB 4; Length 336;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

Qy 1 ELTEVEPFA 9  
Db 289 DLTEAFQFA 297

```
RESULT 20
US-10-282-122A-76245
Sequence 76245, Application US/10282122A
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
SOFTWARE: PatentIn version 3.1
```

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PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 76245
LENGTH: 336
TYPE: PRT
ORGANISM: Salmonella typhi
US-10-282-122A-76245

Query Match      77.3%; Score 34; DB 4; Length 336;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

Qy 1 ELTEVEPFA 9  
Db 289 DLTEAFQFA 297

```
RESULT 21
US-10-282-122A-73043
Sequence 73043, Application US/10282122A
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
```

SEQ ID NO 73043  
; LENGTH: 344  
; TYPE: PRT  
; ORGANISM: Salmonella paratyphi A  
US-10-282-122A-73043

Query Match 77.3%; Score 34; DB 4; Length 344;  
Best Local Similarity 66.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
: ||| | : |||  
Db 297 DLTEAFQFA 305

RESULT 22  
US-09-815-242-10162  
; Sequence 10162, Application US/09815242  
; Patent NO. US20020061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl L.  
; APPLICANT: Zyekind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; FILE REFERENCE: ELITRA.011A  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 14110  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 10162  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Escherichia coli  
US-09-815-242-10162

Query Match 77.3%; Score 34; DB 3; Length 346;  
Best Local Similarity 66.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
: ||| | : |||  
Db 299 DLTEAFQFA 307

RESULT 23  
US-10-369-493-833  
; Sequence 833, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.

APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 833  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Escherichia coli  
US-10-369-493-833

Query Match 77.3%; Score 34; DB 4; Length 346;  
Best Local Similarity 66.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVFEEFA 9  
: ||| | : |||  
Db 299 DLTEAFQFA 307

RESULT 24  
US-10-282-122A-56548  
; Sequence 56548, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liansu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zyekind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 56548  
; LENGTH: 346  
; TYPE: PRT  
; ORGANISM: Escherichia coli  
US-10-282-122A-56548



Query Match 77.3%; Score 34; DB 4; Length 346;  
 Best Local Similarity 66.7%; Pred. No. 1.9e+02;  
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 9  
 :|||:|:  
 Db 299 DLTEAFQFA 307

RESULT 25  
 US-10-767-701-52361  
 ; Sequence 52361, Application US/10767701  
 ; Publication No. US20040172684A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
 ; FILE REFERENCE: 38-21(53535)B  
 ; CURRENT APPLICATION NUMBER: US/10/767,701  
 ; CURRENT FILING DATE: 2004-01-29  
 ; NUMBER OF SEQ ID NOS: 63128  
 ; SEQ ID NO 52361  
 ; LENGTH: 139  
 ; TYPE: PRT  
 ; ORGANISM: Sorghum bicolor  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: 11922658.pep  
 US-10-767-701-52361

Query Match 75.0%; Score 33; DB 4; Length 139;  
 Best Local Similarity 75.0%; Pred. No. 1.1e+02;  
 Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEPA 9  
 :|||:|:  
 Db 24 LTEVFQFS 31

RESULT 26  
 US-10-425-115-192145  
 ; Sequence 192145, Application US/10425115  
 ; Publication No. US20040214272A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
 ; FILE REFERENCE: 38-21(53222)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,115  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 369326  
 ; SEQ ID NO 192145  
 ; LENGTH: 180  
 ; TYPE: PRT  
 ; ORGANISM: zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: MRT4577\_106820C.1.pep  
 US-10-425-115-192145

Query Match 75.0%; Score 33; DB 4; Length 180;  
 Best Local Similarity 75.0%; Pred. No. 1.5e+02;  
 Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEPA 9  
 :|||:|:  
 Db 50 LTEVFQFS 57

RESULT 27

US-10-282-122A-71438  
 ; Sequence 71438, Application US/10282122A  
 ; Publication No. US20040029129A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wang, Liangsu  
 ; APPLICANT: Zamudio, Carlos  
 ; APPLICANT: Malone, Cheryl  
 ; APPLICANT: Haselbeck, Robert  
 ; APPLICANT: Ohlsen, Karl  
 ; APPLICANT: Zykkind, Judith  
 ; APPLICANT: Wall, Daniel  
 ; APPLICANT: Trawick, John  
 ; APPLICANT: Carr, Grant  
 ; APPLICANT: Yamamoto, Robert  
 ; APPLICANT: Forsyth, R.  
 ; APPLICANT: Xu, H.  
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
 ; FILE REFERENCE: ELITRA.034A  
 ; CURRENT APPLICATION NUMBER: US/10/282,122A  
 ; CURRENT FILING DATE: 2003-02-20  
 ; PRIOR APPLICATION NUMBER: 60/191,078  
 ; PRIOR FILING DATE: 2000-03-21  
 ; PRIOR APPLICATION NUMBER: 60/206,848  
 ; PRIOR FILING DATE: 2000-05-23/207,727  
 ; PRIOR APPLICATION NUMBER: 60/207,727  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: 60/230,335  
 ; PRIOR FILING DATE: 2000-09-06  
 ; PRIOR APPLICATION NUMBER: 60/230,347  
 ; PRIOR FILING DATE: 2000-09-09  
 ; PRIOR APPLICATION NUMBER: 60/242,578  
 ; PRIOR FILING DATE: 2000-10-23  
 ; PRIOR APPLICATION NUMBER: 60/253,625  
 ; PRIOR FILING DATE: 2000-11-27  
 ; PRIOR APPLICATION NUMBER: 60/257,931  
 ; PRIOR FILING DATE: 2000-12-22  
 ; PRIOR APPLICATION NUMBER: 60/267,636  
 ; PRIOR FILING DATE: 2001-02-09  
 ; PRIOR APPLICATION NUMBER: 60/269,308  
 ; PRIOR FILING DATE: 2001-02-16  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 78614  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 71438  
 ; LENGTH: 299  
 ; TYPE: PRT  
 ; ORGANISM: Staphylococcus haemolyticus  
 US-10-282-122A-71438

Query Match 75.0%; Score 33; DB 4; Length 299;  
 Best Local Similarity 62.5%; Pred. No. 2.5e+02;  
 Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 8  
 :|||:|:  
 Db 278 ELTEIFDY 285

RESULT 28  
 US-09-893-519A-35  
 ; Sequence 35, Application US/09893519A  
 ; Publication No. US20030027243A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ANADYS PHARMACEUTICALS, INC.  
 ; APPLICANT: THOMPSON, Craig  
 ; APPLICANT: MOORE, Jeffrey  
 ; APPLICANT: BURMAN, Ed T.  
 ; APPLICANT: BRADLEY, John  
 ; APPLICANT: DESILVA, Thamara  
 ; APPLICANT: HARRIS, Sandra  
 ; APPLICANT: KOMARNITSKY, Svetlana  
 ; APPLICANT: MENDILLO, Marc

```

; APPLICANT: MOORE, Daniel
; APPLICANT: MCCOY, Melissa
; APPLICANT: SANDERSON, Karen
; APPLICANT: HAQ, Tariq
; APPLICANT: ZHU, Shuhao
; APPLICANT: LONG, Fan
; APPLICANT: DAVIDOV, Eugene
; TITLE OF INVENTION: ANTIFUNGAL COMPOUNDS AND METHODS OF USE
; FILE REFERENCE: 0342/1G548-US2
; CURRENT APPLICATION NUMBER: US/09/893, 519A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/215,164
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 60/224,457
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 712
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Corresponds to SEQ ID NO: 108
US-09-893-519A-35

Query Match      75.0%; Score 33; DB 3; Length 712;
Best Local Similarity 87.5%; Pred. No. 6.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 LREVFEEFA 9
Db      189 LREVFEEFA 196

RESULT 29
US-10-032-585-7153
; Sequence 7153, Application US/10032585
; Publication No. US20030180953A1
; GENERAL INFORMATION:
; APPLICANT: Terry, Roemer D.
; APPLICANT: Bo, Jlang
; APPLICANT: Charles, Boone
; APPLICANT: Howard, Bussey
; TITLE OF INVENTION: Gene Disruption Methodologies for Drug Target Discovery
; FILE REFERENCE: 10182-005-999
; CURRENT APPLICATION NUMBER: US/10/032, 585
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 8000
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7153
; LENGTH: 722
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (707)..(707)
; OTHER INFORMATION: X=any amino acid
US-10-032-585-7153

Query Match      75.0%; Score 33; DB 4; Length 722;
Best Local Similarity 87.5%; Pred. No. 6.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 LREVFEEFA 9
Db      189 LREVFEEFA 196

RESULT 30
US-10-425-115-229096
; Sequence 229096, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
```

```

; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425, 115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 229096
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(104)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_140528C.1.pep
US-10-425-115-229096

Query Match      72.7%; Score 32; DB 4; Length 104;
Best Local Similarity 55.6%; Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 ELREVFEEFA 9
Db      59 ELREVFEEFA 67

RESULT 31
US-11-021-949-29
; Sequence 29, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021, 949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-29

Query Match      72.7%; Score 32; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 ELREVFEEFA 9
Db      40 ELREVFEEFA 48

RESULT 32
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
```

```

; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

```

```

Query Match      72.7%; Score 32; DB 6; Length 158;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      3 TEVEFEFA 9
      |||:||||
Db      42 TEVEFEFA 48

```

```

RESULT 33
US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

```

```

Query Match      72.7%; Score 32; DB 6; Length 158;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      3 TEVEFEFA 9
      |||:||||
Db      42 TEVEFEFA 48

```

```

RESULT 34
US-11-021-949-31
; Sequence 31, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE

```

```

; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 162
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-31

```

```

Query Match      72.7%; Score 32; DB 6; Length 162;
Best Local Similarity 85.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      3 TEVEFEFA 9
      |||:||||
Db      46 TEVEFEFA 52

```

```

RESULT 35
US-10-369-493-18771
; Sequence 18771, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 18771
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Anabaena PCC7120
US-10-369-493-18771

```

```

Query Match      72.7%; Score 32; DB 4; Length 441;
Best Local Similarity 75.0%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 ELTEVEFEF 8
      :|||:||||
Db      191 DLAEVFEF 198

```

```

RESULT 36
US-10-767-701-41242
; Sequence 41242, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 41242
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Sorghum bicolor

```

FEATURE:  
OTHER INFORMATION: Clone ID: SORBI-28MAY03-C37682\_1.pep  
US-10-767-701-41242

Query Match 72.7%; Score 32; DB 4; Length 454;  
Best Local Similarity 55.6%; Pred. No. 6.2e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 270 EVTEIFNFS 278

## RESULT 37

US-10-425-114-38072  
Sequence 38072, Application US/10425114  
Publication No. US20040034888A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53313)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 38072  
LENGTH: 478  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: LIB3066-005-A10\_FLI.pep  
US-10-425-114-38072

Query Match 72.7%; Score 32; DB 4; Length 478;  
Best Local Similarity 55.6%; Pred. No. 6.5e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 158 EVTEIFNFS 166

## RESULT 38

US-10-193-896-11  
Sequence 11, Application US/10193896  
Publication No. US20030129710A1  
GENERAL INFORMATION:  
APPLICANT: Biotechnologisk Institut  
APPLICANT: Jorgensen, Flemming  
APPLICANT: Hansen, Ole C.  
APPLICANT: Stougaard, Peter  
APPLICANT: Berthelsen, Hans  
APPLICANT: Eriksson, Kristian  
APPLICANT: Botcher, Karen  
APPLICANT: Christensen, Hans Jorgen Singel  
TITLE OF INVENTION: A novel thermostable isomerase and use  
TITLE OF INVENTION: hereof  
FILE REFERENCE: 30077US02  
CURRENT APPLICATION NUMBER: US/10/193,896  
CURRENT FILING DATE: 2002-11-06  
PRIOR APPLICATION NUMBER: 60/305,155  
PRIOR FILING DATE: 2001-07-16  
PRIOR APPLICATION NUMBER: 09/905,108  
PRIOR FILING DATE: 2001-07-16  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 11  
LENGTH: 496

TYPE: PRT  
ORGANISM: T.maritima  
US-10-193-896-11

Query Match 72.7%; Score 32; DB 4; Length 496;  
Best Local Similarity 66.7%; Pred. No. 6.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 59 EITEIFEKA 67

## RESULT 39

US-10-369-493-2914  
Sequence 2914, Application US/10369493  
Publication No. US2003023675A1  
GENERAL INFORMATION:  
APPLICANT: Cao, Yongwei  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Goldman, Barry S.  
APPLICANT: Chen, Xianfeng  
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
FILE REFERENCE: 38-10(52052)B  
CURRENT APPLICATION NUMBER: US/10/369,493  
CURRENT FILING DATE: 2003-02-28  
PRIOR APPLICATION NUMBER: US 60/360,039  
PRIOR FILING DATE: 2002-02-21  
NUMBER OF SEQ ID NOS: 47374  
SEQ ID NO 2914  
LENGTH: 496  
TYPE: PRT  
ORGANISM: Thermotoga maritima  
US-10-369-493-2914

Query Match 72.7%; Score 32; DB 4; Length 496;  
Best Local Similarity 66.7%; Pred. No. 6.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFEFA 9  
Db 59 EITEIFEKA 67

## RESULT 40

US-10-425-114-64036  
Sequence 64036, Application US/10425114  
Publication No. US20040034888A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jingdong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E.  
APPLICANT: Tabaska, Jack E.  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53313)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 64036  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: LIB3245-489-H6\_FLI.pep  
US-10-425-114-64036

Query Match 72.7%; Score 32; DB 4; Length 504;  
Best Local Similarity 55.6%; Pred. No. 6.9e+02;

Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
DB 161 EVTEIFNFS 169

## RESULT 41

US-10-425-114-64000  
; Sequence 64000, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 64000  
; LENGTH: 537  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB3245-236-E7\_FLI.pep  
US-10-425-114-64000

Query Match 72.7%; Score 32; DB 4; Length 537;  
Best Local Similarity 55.6%; Pred. No. 7.4e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
DB 352 EVTEIFNFS 360

## RESULT 42

US-10-425-114-41988  
; Sequence 41988, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 41988  
; LENGTH: 550  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB148-032-E5\_FLI.pep  
US-10-425-114-41988

Query Match 72.7%; Score 32; DB 4; Length 550;  
Best Local Similarity 55.6%; Pred. No. 7.6e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
DB 207 EVTEIFNFS 215

## RESULT 43

US-10-425-115-291636  
; Sequence 291636, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53322)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 291636  
; LENGTH: 639  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(639)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_29058C.1.pep  
US-10-425-115-291636

Query Match 72.7%; Score 32; DB 4; Length 639;  
Best Local Similarity 55.6%; Pred. No. 8.9e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
DB 320 EVTEIFNFS 328

## RESULT 44

US-10-425-115-265119  
; Sequence 265119, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 265119  
; LENGTH: 683  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(683)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_173396C.1.pep  
US-10-425-115-265119

Query Match 72.7%; Score 32; DB 4; Length 683;  
Best Local Similarity 55.6%; Pred. No. 9.5e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELTEVEFEPA 9  
|:|:|:|:  
DB 352 EVTEIFNFS 360



Db 377 ELLEVQFS 385

## RESULT 49

US-10-128-714-3298  
Sequence 3298, Application US/10128714  
Publication No. US20030119013A1  
GENERAL INFORMATION:  
APPLICANT: Jiang, Bo  
APPLICANT: Hu, Wengqi  
APPLICANT: Tishkoff, Daniel  
APPLICANT: Zamudio, Carlos  
APPLICANT: Eroskhin, Alexey M  
APPLICANT: Lemieux, Sebastien M  
TITLE OF INVENTION: Identification of Essential Genes in *Aspergillus fumigatus* and  
TITLE OF INVENTION: Methods of Use  
FILE REFERENCE: 10182-018-999  
CURRENT APPLICATION NUMBER: US/10/128,714  
CURRENT FILING DATE: 2002-04-23  
PRIOR APPLICATION NUMBER: US 60/285,697  
PRIOR FILING DATE: 2001-04-23  
PRIOR APPLICATION NUMBER: US 60/287,066  
PRIOR FILING DATE: 2001-04-27  
PRIOR APPLICATION NUMBER: US 60/295,890  
PRIOR FILING DATE: 2001-06-05  
PRIOR APPLICATION NUMBER: US 60/303,899  
PRIOR FILING DATE: 2001-07-09  
PRIOR APPLICATION NUMBER: US 60/316,362  
PRIOR FILING DATE: 2001-08-31  
NUMBER OF SEQ ID NOS: 8603  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 3298  
LENGTH: 1555  
TYPE: PRT  
ORGANISM: *Aspergillus fumigatus*  
US-10-128-714-3298

Query Match 72.7%; Score 32; DB 4; Length 1555;  
Best Local Similarity 75.0%; Pred. No. 2.3e+03;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 LTEVEFEFA 9  
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Db 1258 LTEAYEFA 1265

RESULT 50  
US-10-128-714-8298  
Sequence 8298, Application US/10128714  
Publication No. US20030119013A1  
GENERAL INFORMATION:  
APPLICANT: Jiang, Bo  
APPLICANT: Hu, Wengqi  
APPLICANT: Tishkoff, Daniel  
APPLICANT: Zamudio, Carlos  
APPLICANT: Eroskhin, Alexey M  
APPLICANT: Lemieux, Sebastien M  
TITLE OF INVENTION: Identification of Essential Genes in *Aspergillus fumigatus* and  
TITLE OF INVENTION: Methods of Use  
FILE REFERENCE: 10182-018-999  
CURRENT APPLICATION NUMBER: US/10/128,714  
CURRENT FILING DATE: 2002-04-23  
PRIOR APPLICATION NUMBER: US 60/285,697  
PRIOR FILING DATE: 2001-04-23  
PRIOR APPLICATION NUMBER: US 60/287,066  
PRIOR FILING DATE: 2001-04-27  
PRIOR APPLICATION NUMBER: US 60/295,890  
PRIOR FILING DATE: 2001-06-05  
PRIOR APPLICATION NUMBER: US 60/303,899  
PRIOR FILING DATE: 2001-07-09  
PRIOR APPLICATION NUMBER: US 60/316,362  
PRIOR FILING DATE: 2001-08-31  
NUMBER OF SEQ ID NOS: 8603

SOFTWARE: PatentIn version 3.1  
SEQ ID NO 8298  
LENGTH: 1832  
TYPE: PRT  
ORGANISM: *Aspergillus fumigatus*  
US-10-128-714-8298

Query Match 72.7%; Score 32; DB 4; Length 1832;  
Best Local Similarity 75.0%; Pred. No. 2.7e+03;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 LTEVEFEFA 9  
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Db 1258 LTEAYEFA 1265

Search completed: May 5, 2006, 07:44:07  
Job time: 82.2 secs

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: May 5, 2006, 07:32:07 ; Search time 18.4 Seconds  
(without alignments)  
22.639 Million cell updates/sec

Title: US-08-170-344-26  
Perfect score: 44  
Sequence: 1 ELTEVFEEFA 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications AA New:\*

- 1: /SID55/prodata/1/pubppa/US06\_NEW\_PUB.pep1.\*
- 2: /SID55/prodata/1/pubppa/US06\_NEW\_PUB.pep.\*
- 3: /SID55/prodata/1/pubppa/US07\_NEW\_PUB.pep.\*
- 4: /SID55/prodata/1/pubppa/US08\_NEW\_PUB.pep.\*
- 5: /SID55/prodata/1/pubppa/US09\_NEW\_PUB.pep.\*
- 6: /SID55/prodata/1/pubppa/US09\_NEW\_PUB.pep.\*
- 7: /SID55/prodata/1/pubppa/US10\_NEW\_PUB.pep1.\*
- 8: /SID55/prodata/1/pubppa/US10\_NEW\_PUB.pep.\*
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- 10: /SID55/prodata/1/pubppa/US11\_NEW\_PUB.pep1.\*
- 11: /SID55/prodata/1/pubppa/US11\_NEW\_PUB.pep1.\*
- 12: /SID55/prodata/1/pubppa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44	100.0	11	9	US-10-530-061-486
2	44	100.0	158	9	US-10-530-253-15
3	33	75.0	312	11	US-11-079-463-10004
4	33	75.0	441	11	US-11-096-568A-25122
5	32	72.7	158	9	US-10-530-253-19
6	32	72.7	158	9	US-10-530-253-20
7	32	72.7	158	9	US-10-530-253-26
8	32	72.7	219	11	US-11-087-099-3773
9	31	70.5	331	11	US-11-096-568A-31317
10	31	70.5	336	11	US-11-188-298-673
11	31	70.5	336	11	US-11-188-298-21543
12	31	70.5	512	11	US-11-096-568A-31316
13	31	70.5	520	11	US-11-096-568A-31315
14	30	68.2	109	7	US-09-978-360A-725
15	30	68.2	142	7	US-09-978-360A-740
16	30	68.2	142	8	US-10-505-928-189
17	30	68.2	160	9	US-10-530-253-25
18	30	68.2	311	11	US-11-072-512-2458
19	30	68.2	336	11	US-11-188-298-7665
20	30	68.2	732	11	US-11-098-686-10532
21	30	68.2	1070	11	US-11-000-463-721

22	30	68.2	1194	11	US-11-000-463-249	Sequence 249, App
23	30	68.2	1508	11	US-11-043-889-47	Sequence 47, App1
24	29	65.9	10	9	US-10-530-061-564	Sequence 564, App
25	29	65.9	121	11	US-11-045-004-2503	Sequence 2503, App
26	29	65.9	167	9	US-10-793-626-408	Sequence 408, App
27	29	65.9	222	9	US-10-784-004-665	Sequence 665, App
28	29	65.9	223	9	US-10-784-004-343	Sequence 343, App
29	29	65.9	228	11	US-11-079-463-5522	Sequence 5522, App
30	29	65.9	283	11	US-11-096-568A-23063	Sequence 23063, App
31	29	65.9	289	11	US-10-467-657-3878	Sequence 3878, App
32	29	65.9	303	11	US-11-188-298-2935	Sequence 2935, App
33	29	65.9	305	11	US-11-188-298-11326	Sequence 11326, App
34	29	65.9	340	9	US-10-506-454-61	Sequence 61, App1
35	29	65.9	342	11	US-11-096-568A-23062	Sequence 23062, App
36	29	65.9	345	11	US-11-087-099-6281	Sequence 6281, App
37	29	65.9	356	11	US-11-188-298-19224	Sequence 19224, App
38	29	65.9	358	9	US-10-485-517-227	Sequence 227, App
39	29	65.9	358	9	US-10-793-626-18	Sequence 18, App1
40	29	65.9	358	11	US-11-188-298-14936	Sequence 14936, App
41	29	65.9	358	11	US-11-188-298-21490	Sequence 21490, App
42	29	65.9	416	11	US-11-188-298-16138	Sequence 16138, App
43	29	65.9	492	9	US-10-510-386-98	Sequence 98, App1
44	29	65.9	495	11	US-11-188-298-18460	Sequence 18460, App
45	29	65.9	576	9	US-10-530-340-12	Sequence 12, App1
46	29	65.9	637	11	US-11-188-298-13299	Sequence 13299, App
47	29	65.9	637	11	US-11-188-298-14583	Sequence 14583, App
48	29	65.9	687	11	US-11-072-512-2651	Sequence 2651, App
49	29	65.9	711	9	US-10-506-454-111	Sequence 111, App
50	29	65.9	1179	9	US-10-204-639-60	Sequence 60, App1
51	29	65.9	1285	11	US-11-207-078-600	Sequence 600, App
52	29	65.9	2041	11	US-11-096-568A-32772	Sequence 32772, App
53	29	65.9	2054	11	US-11-096-568A-32771	Sequence 32771, App
54	29	65.9	2073	11	US-11-096-568A-32770	Sequence 32770, App
55	28	63.6	111	11	US-11-096-568A-14465	Sequence 14465, App
56	28	63.6	112	11	US-11-096-568A-14464	Sequence 14464, App
57	28	63.6	132	9	US-11-096-568A-14463	Sequence 14463, App
58	28	63.6	152	11	US-10-507-720-4	Sequence 4, App1
59	28	63.6	181	11	US-11-096-568A-30033	Sequence 30033, App
60	28	63.6	185	9	US-10-793-626-3064	Sequence 3064, App
61	28	63.6	187	11	US-11-096-568A-24077	Sequence 24077, App
62	28	63.6	199	11	US-11-096-568A-12280	Sequence 12280, App
63	28	63.6	200	11	US-11-096-568A-24076	Sequence 24076, App
64	28	63.6	201	11	US-11-264-096-1606	Sequence 1606, App
65	28	63.6	216	11	US-11-087-099-471	Sequence 471, App
66	28	63.6	216	11	US-11-096-568A-30032	Sequence 30032, App
67	28	63.6	228	9	US-10-467-657-7524	Sequence 7524, App
68	28	63.6	246	11	US-11-264-096-701	Sequence 701, App
69	28	63.6	247	9	US-10-519-238-1	Sequence 1, App1
70	28	63.6	247	9	US-10-194-487-228	Sequence 228, App
71	28	63.6	247	9	US-10-195-883-228	Sequence 228, App
72	28	63.6	247	9	US-10-195-888-228	Sequence 228, App
73	28	63.6	247	9	US-10-195-889-228	Sequence 228, App
74	28	63.6	251	9	US-10-519-238-6	Sequence 6, App1
75	28	63.6	254	11	US-11-096-568A-12279	Sequence 12279, App
76	28	63.6	292	9	US-10-770-726-53	Sequence 53, App1
77	28	63.6	302	11	US-11-024-959-262	Sequence 262, App
78	28	63.6	303	11	US-11-188-258-16113	Sequence 16113, App
79	28	63.6	334	11	US-11-188-258-7447	Sequence 7447, App
80	28	63.6	336	11	US-11-188-258-3361	Sequence 3361, App
81	28	63.6	337	11	US-11-087-099-11462	Sequence 11462, App
82	28	63.6	340	11	US-11-188-258-3371	Sequence 3371, App
83	28	63.6	414	11	US-11-188-258-2161	Sequence 2161, App
84	28	63.6	416	11	US-11-045-004-70	Sequence 70, App1
85	28	63.6	417	11	US-11-079-463-9915	Sequence 9915, App
86	28	63.6	455	11	US-11-087-099-1717	Sequence 1717, App
87	28	63.6	455	11	US-11-188-298-12656	Sequence 12656, App
88	28	63.6	472	9	US-10-506-454-1084	Sequence 1084, App
89	28	63.6	473	11	US-11-087-099-10514	Sequence 10514, App
90	28	63.6	473	11	US-11-188-258-20703	Sequence 20703, App
91	28	63.6	492	11	US-11-264-096-1231	Sequence 1231, App
92	28	63.6	492	11	US-11-264-096-1232	Sequence 1232, App
93	28	63.6	527	11	US-11-096-568A-1516	Sequence 1516, App
94	28	63.6	527	11	US-11-096-568A-26860	Sequence 26860, App

95	28	63.6	537	11	US-11-188-298-21893	Sequence 21893, A	168	27	61.4	368	11	US-11-188-298-6254	Sequence 6254, Ap
96	28	63.6	538	9	US-10-763-712A-58	Sequence 58, Appl	169	27	61.4	370	11	US-11-079-463-5529	Sequence 5259, Ap
97	28	63.6	537	11	US-11-096-568A-1515	Sequence 1515, Ap	170	27	61.4	369	11	US-11-096-568A-7308	Sequence 7308, Ap
98	28	63.6	591	11	US-11-096-568A-31982	Sequence 31982, A	171	27	61.4	384	11	US-11-096-568A-22402	Sequence 22402, A
99	28	63.6	606	9	US-10-763-712A-9	Sequence 9, Appl1	172	27	61.4	330	11	US-11-096-568A-22401	Sequence 22401, A
100	28	63.6	606	9	US-10-763-712A-97	Sequence 97, Appl1	173	27	61.4	335	11	US-11-096-568A-22631	Sequence 22631, A
101	28	63.6	607	11	US-11-096-568A-31981	Sequence 31981, A	174	27	61.4	396	11	US-11-096-568A-7307	Sequence 7307, Ap
102	28	63.6	615	11	US-11-172-145-6	Sequence 6, Appl1	175	27	61.4	419	11	US-11-188-298-20509	Sequence 20509, A
103	28	63.6	615	11	US-11-087-099-9420	Sequence 9420, Ap	176	27	61.4	423	11	US-11-045-004-1118	Sequence 1118, Ap
104	28	63.6	615	11	US-11-188-298-19754	Sequence 19753, A	177	27	61.4	429	11	US-11-188-298-8380	Sequence 8380, Ap
105	28	63.6	617	11	US-11-172-145-8	Sequence 8, Appl1	178	27	61.4	429	11	US-11-188-298-12648	Sequence 12648, Ap
106	28	63.6	619	11	US-11-072-512-2472	Sequence 2472, Ap	179	27	61.4	429	11	US-11-188-298-20228	Sequence 20228, A
107	28	63.6	636	11	US-11-072-512-3666	Sequence 3666, Ap	180	27	61.4	429	11	US-11-188-298-21735	Sequence 21735, A
108	28	63.6	652	9	US-10-873-0028-36	Sequence 26, Appl	181	27	61.4	430	11	US-11-087-099-9961	Sequence 9961, Ap
109	28	63.6	691	11	US-11-045-004-367	Sequence 367, Appl	182	27	61.4	430	11	US-11-188-298-14611	Sequence 14611, A
110	28	63.6	694	11	US-11-096-568A-26859	Sequence 26859, A	183	27	61.4	431	11	US-11-096-568A-7306	Sequence 7306, Ap
111	28	63.6	718	11	US-11-074-176-306	Sequence 306, Appl	184	27	61.4	431	11	US-11-188-298-18627	Sequence 18627, A
112	28	63.6	723	11	US-11-074-176-18	Sequence 18, Appl	185	27	61.4	434	11	US-11-087-099-2771	Sequence 2771, Ap
113	28	63.6	755	11	US-11-082-389-100	Sequence 100, Appl	186	27	61.4	437	11	US-11-096-568A-22400	Sequence 22400, A
114	28	63.6	755	11	US-11-082-389-102	Sequence 102, Appl	187	27	61.4	437	9	US-10-491-468-5	Sequence 5, Appl1
115	28	63.6	761	11	US-11-096-568A-27816	Sequence 27816, A	188	27	61.4	448	11	US-11-096-568A-22630	Sequence 22630, A
116	28	63.6	776	11	US-11-096-568A-27815	Sequence 27815, A	189	27	61.4	448	11	US-11-242-507A-59	Sequence 59, Appl
117	28	63.6	780	11	US-11-096-568A-22956	Sequence 22956, A	190	27	61.4	448	11	US-11-045-004-1642	Sequence 1642, Ap
118	28	63.6	797	11	US-11-096-568A-22955	Sequence 22955, A	191	27	61.4	450	11	US-11-096-568A-22629	Sequence 22629, A
119	28	63.6	824	11	US-11-096-568A-26858	Sequence 26858, A	192	27	61.4	453	11	US-11-045-004-2165	Sequence 2165, Ap
120	28	63.6	838	11	US-11-096-568A-22954	Sequence 22954, A	193	27	61.4	454	9	US-10-959-322-5	Sequence 4, Appl1
121	28	63.6	839	11	US-11-096-568A-27814	Sequence 27814, A	194	27	61.4	454	9	US-10-959-322-5	Sequence 5, Appl1
122	28	63.6	901	11	US-11-216-333-4	Sequence 4, Appl1	195	27	61.4	454	10	US-11-183-218-64	Sequence 64, Appl
123	28	63.6	1022	11	US-11-087-099-7499	Sequence 7499, Appl	196	27	61.4	457	11	US-11-188-298-7119	Sequence 7119, Ap
124	28	63.6	1045	11	US-11-113-424-54	Sequence 54, Appl	197	27	61.4	468	11	US-11-242-507A-2	Sequence 2, Appl1
125	28	63.6	1094	9	US-10-821-234-1097	Sequence 1097, Ap	198	27	61.4	511	11	US-11-096-568A-5155	Sequence 5155, Ap
126	28	63.6	1215	11	US-11-079-463-9852	Sequence 9852, Ap	199	27	61.4	515	11	US-11-087-099-7375	Sequence 7375, Ap
127	28	63.6	2376	11	US-11-096-051-4	Sequence 4, Appl1	200	27	61.4	515	11	US-11-188-298-17846	Sequence 17846, A
128	28	63.6	2613	9	US-10-455-772-530	Sequence 530, Appl	201	27	61.4	535	11	US-11-045-004-656	Sequence 656, Appl
129	28	63.6	2628	9	US-10-455-772-502	Sequence 502, Appl	202	27	61.4	531	9	US-10-506-454-152	Sequence 152, Appl
130	28	63.6	2715	11	US-11-096-051-2	Sequence 2, Appl1	203	27	61.4	589	11	US-11-096-568A-5154	Sequence 5154, Ap
131	28	63.6	2715	11	US-11-113-424-51	Sequence 51, Appl1	204	27	61.4	591	11	US-11-079-463-9048	Sequence 9048, Ap
132	28	63.6	2721	9	US-10-455-772-522	Sequence 522, Appl	205	27	61.4	608	11	US-11-096-568A-5153	Sequence 5153, Ap
133	28	63.6	2721	11	US-11-096-051-10	Sequence 10, Appl	206	27	61.4	657	11	US-11-045-004-1423	Sequence 1423, Ap
134	28	63.6	2725	9	US-10-455-772-186	Sequence 466, Appl	207	27	61.4	659	11	US-11-207-078-187	Sequence 188, Appl
135	28	63.6	2725	9	US-10-455-772-526	Sequence 526, Appl	208	27	61.4	716	9	US-10-131-826A-96	Sequence 96, Appl
136	28	63.6	2725	9	US-10-455-772-544	Sequence 544, Appl	209	27	61.4	716	9	US-10-973-115B-99	Sequence 96, Appl1
137	28	63.6	2725	9	US-10-455-772-546	Sequence 546, Appl	210	27	61.4	716	9	US-10-137-873A-96	Sequence 96, Appl1
138	28	63.6	2725	9	US-10-455-772-548	Sequence 548, Appl	211	27	61.4	716	9	US-10-152-370-95	Sequence 96, Appl1
139	28	63.6	2725	9	US-10-455-772-550	Sequence 550, Appl	212	27	61.4	716	11	US-11-290-153-96	Sequence 96, Appl
140	28	63.6	2725	9	US-10-455-772-552	Sequence 552, Appl	213	27	61.4	719	11	US-11-207-078-219	Sequence 219, Appl
141	28	63.6	2725	11	US-11-096-051-8	Sequence 8, Appl1	214	27	61.4	732	9	US-10-467-657-5888	Sequence 5888, Ap
142	27	61.4	55	9	US-10-467-657-7140	Sequence 7140, Ap	215	27	61.4	737	9	US-10-055-877-156	Sequence 156, Appl
143	27	61.4	97	11	US-11-096-568A-33323	Sequence 33323, A	216	27	61.4	748	11	US-11-188-298-9942	Sequence 9942, Ap
144	27	61.4	111	11	US-11-096-568A-4479	Sequence 4479, Ap	217	27	61.4	782	11	US-11-096-568A-28864	Sequence 28864, A
145	27	61.4	119	11	US-11-096-568A-33322	Sequence 33322, A	218	27	61.4	780	11	US-11-087-099-1634	Sequence 1634, Ap
146	27	61.4	129	11	US-11-096-568A-4478	Sequence 4478, Ap	219	27	61.4	775	11	US-11-079-463-7858	Sequence 7858, Ap
147	27	61.4	131	11	US-11-096-568A-19294	Sequence 19294, A	220	27	61.4	834	9	US-10-131-826A-148	Sequence 148, Appl
148	27	61.4	136	11	US-11-188-298-16394	Sequence 16394, A	221	27	61.4	834	9	US-10-973-115B-148	Sequence 148, Appl
149	27	61.4	141	11	US-11-096-568A-33321	Sequence 33321, A	222	27	61.4	834	9	US-10-137-873A-148	Sequence 148, Appl
150	27	61.4	164	11	US-11-096-568A-19293	Sequence 19293, A	223	27	61.4	834	9	US-10-152-370-148	Sequence 148, Appl
151	27	61.4	173	11	US-11-096-568A-19292	Sequence 19292, A	224	27	61.4	834	11	US-11-072-512-2223	Sequence 2232, Ap
152	27	61.4	178	9	US-10-485-517-231	Sequence 231, Appl	225	27	61.4	834	11	US-11-290-153-148	Sequence 148, Appl
153	27	61.4	206	11	US-11-188-298-470	Sequence 470, Appl	226	27	61.4	841	11	US-10-624-932-6	Sequence 6, Appl1
154	27	61.4	206	11	US-11-188-298-10048	Sequence 10048, A	227	27	61.4	841	9	US-10-624-932-8	Sequence 8, Appl1
155	27	61.4	206	11	US-11-188-298-18342	Sequence 18342, A	228	27	61.4	919	9	US-10-858-730-206	Sequence 206, Appl
156	27	61.4	207	9	US-10-959-322-6	Sequence 6, Appl1	229	27	61.4	944	9	US-10-511-989-34	Sequence 34, Appl
157	27	61.4	219	11	US-11-072-512-2924	Sequence 2924, Appl	230	27	61.4	977	9	US-10-511-989-149	Sequence 149, Appl
158	27	61.4	222	11	US-11-076-164-10	Sequence 10, Appl	231	27	61.4	1125	9	US-10-821-234-1444	Sequence 1444, Appl
159	27	61.4	228	11	US-11-121-438-44	Sequence 44, Appl	232	27	61.4	1249	11	US-11-126-022-25	Sequence 25, Appl
160	27	61.4	233	11	US-11-096-686-10851	Sequence 10851, A	233	27	61.4	1249	11	US-11-126-022-30	Sequence 30, Appl
161	27	61.4	234	9	US-10-467-657-6538	Sequence 6538, Ap	234	27	61.4	4386	11	US-11-004-399-714	Sequence 714, Appl
162	27	61.4	256	11	US-11-076-164-12	Sequence 12, Appl	235	27	61.4	7465	11	US-11-087-099-7521	Sequence 7521, Ap
163	27	61.4	310	9	US-10-454-437-328	Sequence 328, Appl	236	26	59.1	15	9	US-10-530-061-1668	Sequence 1668, Ap
164	27	61.4	330	9	US-10-511-989-36	Sequence 36, Appl	237	26	59.1	49	11	US-11-183-567A-20	Sequence 20, Appl
165	27	61.4	339	11	US-11-188-298-8481	Sequence 8481, Ap	238	26	59.1	49	11	US-11-183-567A-19	Sequence 19, Appl
166	27	61.4	345	11	US-11-188-298-10047	Sequence 10047, A	239	26	59.1	58	11	US-11-188-298-20025	Sequence 20025, A
167	27	61.4	361	11	US-11-188-298-3372	Sequence 3372, Ap	240	26	59.1	62	9	US-10-986-405-297	Sequence 297, Appl

241	26	59.1	64	11	US-11-226-657-151	Sequence 151, App	314	26	59.1	375	11	US-11-188-298-6691	Sequence 6691, Ap
242	26	59.1	69	9	US-10-986-405-355	Sequence 355, App	315	26	59.1	375	11	US-11-188-298-7772	Sequence 7772, Ap
243	26	59.1	84	11	US-11-140-284-13	Sequence 13, Appl	316	26	59.1	377	9	US-10-821-234-1436	Sequence 1436, Ap
244	26	59.1	87	11	US-11-096-568A-14024	Sequence 14024, A	317	26	59.1	377	11	US-11-188-298-17243	Sequence 17243, A
245	26	59.1	88	11	US-11-096-568A-14023	Sequence 14023, A	318	26	59.1	380	9	US-10-467-657-6760	Sequence 6760, Ap
246	26	59.1	105	11	US-11-098-686-11146	Sequence 11146, A	319	26	59.1	386	11	US-11-096-568A-11113	Sequence 11113, Ap
247	26	59.1	110	11	US-11-096-568A-30894	Sequence 30894, A	320	26	59.1	397	9	US-10-467-657-4982	Sequence 4982, Ap
248	26	59.1	111	11	US-11-096-568A-25541	Sequence 25541, A	321	26	59.1	407	9	US-10-698-618-1	Sequence 1, Appl
249	26	59.1	119	11	US-11-129-076-6	Sequence 6, Appl1	322	26	59.1	410	11	US-11-096-568A-1112	Sequence 1112, Ap
250	26	59.1	124	11	US-11-096-568A-25540	Sequence 25540, A	323	26	59.1	414	11	US-10-967-648A-8	Sequence 8, Appl1
251	26	59.1	130	11	US-11-045-004-1886	Sequence 1886, Ap	324	26	59.1	413	11	US-11-096-568A-18170	Sequence 18170, A
252	26	59.1	133	11	US-11-087-099-4031	Sequence 4031, Ap	325	26	59.1	423	11	US-11-096-568A-19391	Sequence 19391, A
253	26	59.1	136	9	US-10-793-626-1062	Sequence 8, Appl1	326	26	59.1	431	11	US-11-079-463-8908	Sequence 6583, Ap
254	26	59.1	139	9	US-10-714-887-8	Sequence 8, Appl1	327	26	59.1	442	9	US-10-467-657-1614	Sequence 1614, Ap
255	26	59.1	149	9	US-11-172-740-889	Sequence 889, App	328	26	59.1	442	11	US-11-079-463-6548	Sequence 6548, Ap
256	26	59.1	140	9	US-10-667-295-10	Sequence 10, Appl	329	26	59.1	454	11	US-11-188-298-1191	Sequence 11491, A
257	26	59.1	149	9	US-10-530-253-16	Sequence 16, Appl	330	26	59.1	455	11	US-11-096-568A-15393	Sequence 15393, A
258	26	59.1	161	11	US-11-129-076-6	Sequence 5, Appl1	331	26	59.1	463	11	US-11-096-568A-7798	Sequence 6549, Ap
259	26	59.1	162	11	US-11-087-099-10255	Sequence 10255, A	332	26	59.1	472	11	US-11-165-211-4	Sequence 11491, A
260	26	59.1	167	11	US-11-186-448-17	Sequence 17, Appl	333	26	59.1	472	11	US-11-045-004-999	Sequence 8908, Ap
261	26	59.1	171	11	US-11-087-099-4655	Sequence 4655, Ap	334	26	59.1	478	11	US-11-172-740-1058	Sequence 7798, Ap
262	26	59.1	173	11	US-11-000-463-352	Sequence 352, App	335	26	59.1	479	11	US-11-096-568A-1797	Sequence 7796, Ap
263	26	59.1	182	11	US-11-045-004-12195	Sequence 2195, Ap	336	26	59.1	483	11	US-11-096-568A-7796	Sequence 351, App
264	26	59.1	185	11	US-11-096-568A-23179	Sequence 23179, A	337	26	59.1	484	11	US-11-024-959-351	Sequence 9870, Ap
265	26	59.1	200	11	US-11-096-568A-30893	Sequence 30893, A	338	26	59.1	485	11	US-11-188-298-9870	Sequence 5877, Ap
266	26	59.1	225	9	US-10-873-528-143	Sequence 143, App	339	26	59.1	488	11	US-11-079-463-5287	Sequence 120, App
267	26	59.1	234	9	US-10-330-773-611	Sequence 611, App	340	26	59.1	490	9	US-10-745-586-128	Sequence 34, Appl
268	26	59.1	239	9	US-10-793-626-3010	Sequence 3010, Ap	341	26	59.1	491	9	US-10-218-784-34	Sequence 34, Appl
269	26	59.1	241	11	US-11-153-880-6	Sequence 6, Appl1	342	26	59.1	491	9	US-10-219-061-34	Sequence 34, Appl
270	26	59.1	241	11	US-11-064-774A-127	Sequence 127, App	343	26	59.1	491	9	US-10-219-061-34	Sequence 34, Appl
271	26	59.1	241	11	US-11-075-400-20	Sequence 20, Appl	344	26	59.1	491	9	US-10-219-062-34	Sequence 34, Appl
272	26	59.1	241	11	US-11-211-724-4	Sequence 4, Appl1	345	26	59.1	491	9	US-10-219-062-34	Sequence 34, Appl
273	26	59.1	241	11	US-11-149-462-4	Sequence 4, Appl1	346	26	59.1	491	9	US-10-219-064-34	Sequence 34, Appl
274	26	59.1	241	11	US-11-129-076-3	Sequence 3, Appl1	347	26	59.1	492	11	US-10-233-134-34	Sequence 34, Appl
275	26	59.1	241	11	US-11-076-427A-20	Sequence 20, Appl	348	26	59.1	492	11	US-11-072-512-1974	Sequence 1774, Ap
276	26	59.1	241	11	US-11-233-119-6	Sequence 6, Appl1	349	26	59.1	492	11	US-11-072-512-3223	Sequence 3223, Ap
277	26	59.1	241	11	US-11-075-047A-101	Sequence 101, App	350	26	59.1	509	11	US-11-022-490A-4	Sequence 4, Appl1
278	26	59.1	241	11	US-11-249-422-6	Sequence 6, Appl1	351	26	59.1	509	11	US-11-024-959-93	Sequence 393, App
279	26	59.1	244	9	US-10-523-362-8	Sequence 8, Appl1	352	26	59.1	531	11	US-11-188-298-21856	Sequence 21856, A
280	26	59.1	250	11	US-11-087-099-10551	Sequence 10551, A	353	26	59.1	568	9	US-10-506-454-1188	Sequence 20894, A
281	26	59.1	258	11	US-11-087-099-10458	Sequence 10458, A	354	26	59.1	592	9	US-10-506-454-1017	Sequence 1188, Ap
282	26	59.1	260	11	US-11-171-495-15	Sequence 15, Appl	355	26	59.1	593	11	US-11-188-298-7327	Sequence 1017, Ap
283	26	59.1	261	11	US-11-087-099-12008	Sequence 12008, A	356	26	59.1	593	11	US-11-188-298-15734	Sequence 7327, Ap
284	26	59.1	274	11	US-11-096-568A-13638	Sequence 13638, A	357	26	59.1	594	11	US-11-188-298-15167	Sequence 15167, A
285	26	59.1	276	11	US-11-096-568A-6585	Sequence 6585, Ap	358	26	59.1	606	11	US-11-087-099-15167	Sequence 7568, Ap
286	26	59.1	276	11	US-11-096-568A-13637	Sequence 13637, A	359	26	59.1	614	11	US-11-072-512-3892	Sequence 3892, Ap
287	26	59.1	282	10	US-11-183-218-40	Sequence 40, Appl	360	26	59.1	619	11	US-11-096-568A-2576	Sequence 2576, Ap
288	26	59.1	282	11	US-11-183-205-40	Sequence 40, Appl	361	26	59.1	627	11	US-11-096-568A-28016	Sequence 28016, A
289	26	59.1	285	9	US-10-523-362-6	Sequence 6, Appl1	362	26	59.1	627	11	US-11-079-463-7301	Sequence 7301, Ap
290	26	59.1	290	9	US-10-467-657-3190	Sequence 1190, Ap	363	26	59.1	629	11	US-11-087-099-6338	Sequence 6338, Ap
291	26	59.1	294	11	US-11-188-298-19542	Sequence 19542, A	364	26	59.1	630	11	US-11-196-400-5	Sequence 5, Appl1
292	26	59.1	305	9	US-10-793-626-1144	Sequence 1144, Ap	365	26	59.1	632	11	US-11-188-298-978	Sequence 978, App
293	26	59.1	305	9	US-10-506-454-1255	Sequence 1255, Ap	366	26	59.1	633	11	US-11-169-041-189	Sequence 189, App
294	26	59.1	311	11	US-11-079-463-9052	Sequence 9052, Ap	367	26	59.1	635	11	US-11-098-686-10433	Sequence 10433, A
295	26	59.1	323	11	US-11-188-298-10784	Sequence 10784, Ap	368	26	59.1	664	9	US-10-793-626-1258	Sequence 1258, Ap
296	26	59.1	324	9	US-10-698-618-2	Sequence 2, Appl1	369	26	59.1	667	11	US-11-079-463-5434	Sequence 5434, Ap
297	26	59.1	327	11	US-11-096-568A-18172	Sequence 18172, A	370	26	59.1	679	11	US-11-079-463-9854	Sequence 9854, Ap
298	26	59.1	332	11	US-11-096-568A-1114	Sequence 1114, Ap	371	26	59.1	683	11	US-11-264-026-319	Sequence 319, App
299	26	59.1	333	11	US-11-188-298-9015	Sequence 9015, App	372	26	59.1	689	8	US-10-505-928-187	Sequence 187, App
300	26	59.1	338	11	US-11-045-004-862	Sequence 862, App	373	26	59.1	717	11	US-11-079-463-6144	Sequence 6144, Ap
301	26	59.1	341	11	US-11-188-298-12824	Sequence 12824, A	374	26	59.1	730	9	US-10-216-161A-102	Sequence 102, App
302	26	59.1	342	11	US-11-096-568A-6584	Sequence 6584, Ap	375	26	59.1	757	11	US-11-188-298-13994	Sequence 13994, A
303	26	59.1	344	11	US-11-096-568A-19393	Sequence 19393, A	376	26	59.1	769	11	US-11-079-463-9209	Sequence 9209, Ap
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305	26	59.1	355	11	US-11-045-004-2154	Sequence 2154, Ap	378	26	59.1	827	11	US-11-087-099-10412	Sequence 10412, A
306	26	59.1	358	11	US-11-096-568A-11006	Sequence 11006, A	379	26	59.1	840	11	US-11-207-078-190	Sequence 190, App
307	26	59.1	362	11	US-11-072-512-2732	Sequence 2732, Ap	380	26	59.1	841	11	US-11-216-333-6	Sequence 6, Appl1
308	26	59.1	364	11	US-11-096-568A-16029	Sequence 16029, A	381	26	59.1	856	11	US-11-087-099-5336	Sequence 5336, Ap
309	26	59.1	367	9	US-11-096-568A-22571	Sequence 22571, A	382	26	59.1	856	11	US-11-087-099-10273	Sequence 10273, A
310	26	59.1	371	11	US-10-821-234-1569	Sequence 1569, Ap	383	26	59.1	858	11	US-11-087-099-11125	Sequence 11125, A
311	26	59.1	371	11	US-11-096-568A-18171	Sequence 18171, A	384	26	59.1	860	11	US-11-087-099-11449	Sequence 11449, A
312	26	59.1	371	11	US-11-096-568A-19392	Sequence 19392, A	385	26	59.1	872	11	US-11-087-099-6246	Sequence 6246, Ap
313	26	59.1	375	11	US-11-096-568A-11005	Sequence 11005, A	386	26	59.1	872	11	US-11-207-078-221	Sequence 221, App

387	26	59.1	875	11	US-11-188-298-8045	Sequence 8045, Ap	460	25	56.8	219	11	US-11-045-004-1199	Sequence 1199, Ap
388	26	59.1	914	11	US-11-087-099-6835	Sequence 6835, Ap	461	25	56.8	222	11	US-11-124-368A-208	Sequence 208, App
389	26	59.1	946	11	US-11-010-239-42	Sequence 428, App1	462	25	56.8	232	11	US-11-045-004-781	Sequence 781, App
390	26	59.1	1197	11	US-11-087-099-8238	Sequence 8238, Ap	463	25	56.8	234	11	US-11-096-568A-6544	Sequence 6544, Ap
391	26	59.1	1377	9	US-10-821-234-1070	Sequence 1070, Ap	464	25	56.8	241	11	US-11-124-367A-337	Sequence 327, App
392	26	59.1	1496	11	US-11-079-463-8947	Sequence 8947, Ap	465	25	56.8	246	11	US-11-096-568A-22911	Sequence 22911, Ap
393	26	59.1	1786	11	US-11-196-400-3	Sequence 3, App11	466	25	56.8	248	11	US-11-087-099-10590	Sequence 10590, A
394	26	59.1	1933	9	US-10-523-912-2	Sequence 2, App11	467	25	56.8	259	11	US-11-188-298-16924	Sequence 16924, A
395	26	59.1	1954	9	US-10-784-004-1235	Sequence 1235, Ap	468	25	56.8	260	11	US-11-096-568A-6543	Sequence 6543, Ap
396	26	59.1	2048	11	US-11-116-839-6	Sequence 6, App11	469	25	56.8	262	11	US-11-096-568A-6542	Sequence 6542, Ap
397	26	59.1	2414	11	US-11-154-293-8	Sequence 8, App11	470	25	56.8	265	9	US-10-793-626-174	Sequence 174, App
398	26	59.1	2801	11	US-11-124-368A-305	Sequence 305, App	471	25	56.8	269	11	US-11-096-568A-7367	Sequence 7367, Ap
399	26	59.1	2801	11	US-11-124-367A-433	Sequence 433, App	472	25	56.8	271	9	US-10-506-454-1594	Sequence 1594, Ap
400	26	59.1	2896	11	US-11-124-368A-306	Sequence 306, App	473	25	56.8	271	11	US-11-087-099-22401	Sequence 22401, Ap
401	26	59.1	2896	11	US-11-124-367A-434	Sequence 434, App	474	25	56.8	271	11	US-11-087-099-2750	Sequence 2750, App
402	26	59.1	3256	8	US-10-505-928-357	Sequence 357, App	475	25	56.8	271	11	US-11-087-099-4667	Sequence 4667, Ap
403	26	59.1	3256	11	US-11-124-368A-304	Sequence 304, App	476	25	56.8	271	11	US-11-087-099-5782	Sequence 5782, Ap
404	26	59.1	3256	11	US-11-124-367A-432	Sequence 432, App	477	25	56.8	271	11	US-11-087-099-7730	Sequence 7730, Ap
405	25.5	58.0	448	9	US-10-909-769-21	Sequence 21, App1	478	25	56.8	271	11	US-11-087-099-11152	Sequence 11152, A
406	25.5	58.0	876	11	US-11-077-550-128	Sequence 128, App	479	25	56.8	271	11	US-11-096-568A-23464	Sequence 23464, A
407	25.5	58.0	877	11	US-11-077-550-126	Sequence 126, App	480	25	56.8	272	11	US-11-096-568A-25153	Sequence 25153, A
408	25.5	58.0	877	11	US-11-077-550-130	Sequence 130, App	481	25	56.8	272	11	US-11-087-099-5910	Sequence 5910, Ap
409	25.5	58.0	881	11	US-11-077-550-124	Sequence 124, App	482	25	56.8	272	11	US-11-096-568A-7366	Sequence 7366, Ap
410	25.5	58.0	902	11	US-11-077-550-132	Sequence 132, App	483	25	56.8	274	11	US-11-045-004-2005	Sequence 2005, Ap
411	25.5	58.0	912	11	US-11-077-550-116	Sequence 116, App	484	25	56.8	277	9	US-10-507-720-8	Sequence 8, App11
412	25.5	58.0	914	11	US-11-077-550-120	Sequence 120, App	485	25	56.8	278	11	US-11-096-568A-7365	Sequence 7365, Ap
413	25.5	58.0	944	11	US-11-077-550-122	Sequence 122, App	486	25	56.8	282	11	US-11-096-568A-8188	Sequence 8188, Ap
414	25.5	58.0	950	11	US-11-077-550-118	Sequence 118, App	487	25	56.8	283	9	US-10-455-772-944	Sequence 944, App
415	25	56.8	10	9	US-10-530-061-849	Sequence 849, App	488	25	56.8	284	11	US-11-087-099-6015	Sequence 6015, Ap
416	25	56.8	15	9	US-10-530-061-1660	Sequence 1660, Ap	489	25	56.8	295	11	US-11-079-463-5457	Sequence 5457, Ap
417	25	56.8	15	9	US-10-530-061-1674	Sequence 1674, Ap	490	25	56.8	296	11	US-11-188-299-15682	Sequence 15682, A
418	25	56.8	70	11	US-11-045-004-2324	Sequence 2324, Ap	491	25	56.8	299	9	US-10-455-772-954	Sequence 954, App
419	25	56.8	82	9	US-10-467-657-5534	Sequence 5534, Ap	492	25	56.8	302	10	US-11-301-554-806	Sequence 806, App
420	25	56.8	87	11	US-11-096-568A-21361	Sequence 21361, A	493	25	56.8	306	9	US-10-506-454-50	Sequence 50, App1
421	25	56.8	94	11	US-11-045-004-2247	Sequence 2247, Ap	494	25	56.8	306	11	US-11-188-299-12363	Sequence 12363, A
422	25	56.8	95	11	US-11-096-568A-5322	Sequence 5322, Ap	495	25	56.8	310	11	US-11-096-568A-28066	Sequence 28066, A
423	25	56.8	98	11	US-11-251-821-51	Sequence 51, App1	496	25	56.8	316	11	US-11-072-512-2056	Sequence 2056, Ap
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427	25	56.8	114	9	US-10-467-657-8450	Sequence 4450, Ap	500	25	56.8	322	11	US-11-074-176-36	Sequence 36, App1
428	25	56.8	114	9	US-10-467-657-8412	Sequence 8412, Ap	501	25	56.8	332	11	US-11-188-299-1880	Sequence 1880, Ap
429	25	56.8	126	11	US-11-096-568A-28580	Sequence 28580, A	502	25	56.8	332	11	US-11-188-299-11281	Sequence 11281, A
430	25	56.8	126	11	US-11-096-568A-31023	Sequence 31023, A	503	25	56.8	334	11	US-11-119-212-15	Sequence 15, App1
431	25	56.8	138	11	US-11-096-568A-21360	Sequence 21360, A	504	25	56.8	336	11	US-11-119-212-19	Sequence 19, App1
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435	25	56.8	149	9	US-10-530-253-17	Sequence 17, App1	508	25	56.8	332	11	US-11-188-299-2899	Sequence 2899, Ap
436	25	56.8	149	9	US-10-530-253-18	Sequence 18, App1	509	25	56.8	332	11	US-11-188-299-14869	Sequence 14869, A
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438	25	56.8	150	11	US-11-188-298-10319	Sequence 10319, A	511	25	56.8	334	11	US-11-087-099-8695	Sequence 8695, Ap
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442	25	56.8	172	11	US-11-096-568A-7780	Sequence 7780, Ap	515	25	56.8	341	9	US-10-784-004-657	Sequence 657, App
443	25	56.8	183	11	US-11-069-642-121	Sequence 121, App	516	25	56.8	341	9	US-10-784-004-1056	Sequence 1056, Ap
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449	25	56.8	198	11	US-11-096-568A-26738	Sequence 26738, A	522	25	56.8	346	9	US-10-770-726-55	Sequence 55, App1
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452	25	56.8	203	11	US-11-182-016-42	Sequence 42, App1	525	25	56.8	353	11	US-11-096-568A-6602	Sequence 6602, Ap
453	25	56.8	204	9	US-10-980-388-68	Sequence 68, App1	526	25	56.8	354	11	US-11-188-299-14983	Sequence 4983, Ap
454	25	56.8	205	11	US-11-188-298-15586	Sequence 15586, A	527	25	56.8	355	11	US-11-087-099-1045	Sequence 1045, Ap
455	25	56.8	207	11	US-11-096-568A-7779	Sequence 7779, Ap	528	25	56.8	361	11	US-11-096-568A-31792	Sequence 31792, A
456	25	56.8	216	9	US-10-793-626-3124	Sequence 3124, Ap	529	25	56.8	363	9	US-10-455-772-950	Sequence 950, App
457	25	56.8	216	11	US-11-098-686-10479	Sequence 10479, A	530	25	56.8	365	11	US-11-096-568A-22910	Sequence 22910, A
458	25	56.8	219	11	US-11-096-568A-16580	Sequence 16580, A	531	25	56.8	370	11	US-11-096-568A-11001	Sequence 11001, A
459	25	56.8	219	11	US-11-096-568A-25155	Sequence 25155, A	532	25	56.8	371	9	US-10-784-004-337	Sequence 337, App

533	25	56.8	371	9	US-10-784-004-915	Sequence 915, App	606	25	56.8	458	11	US-11-188-298-15830	Sequence 15830, A
534	25	56.8	371	11	US-11-096-568A-31791	Sequence 31791, A	607	25	56.8	459	9	US-10-935-494-5	Sequence 5, Appl1
535	25	56.8	371	11	US-11-188-298-7655	Sequence 7655, Ap	608	25	56.8	460	11	US-11-096-568A-22909	Sequence 22909, A
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538	25	56.8	376	11	US-11-026-568A-20218	Sequence 20218, A	611	25	56.8	463	11	US-11-264-096-212	Sequence 212, App
539	25	56.8	377	11	US-11-096-568A-16578	Sequence 16578, A	612	25	56.8	468	10	US-11-242-111-27	Sequence 27, Appl
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547	25	56.8	394	10	US-11-301-554-805	Sequence 805, App	620	25	56.8	486	11	US-11-188-298-7144	Sequence 7144, Ap
548	25	56.8	394	10	US-11-301-554-827	Sequence 827, App	621	25	56.8	486	11	US-11-188-298-16724	Sequence 16724, A
549	25	56.8	394	11	US-11-109-156-25	Sequence 25, Appl	622	25	56.8	489	11	US-11-264-096-211	Sequence 18922, A
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563	25	56.8	416	11	US-11-096-568A-31086	Sequence 31086, A	636	25	56.8	519	9	US-10-137-873A-210	Sequence 210, App
564	25	56.8	417	11	US-11-188-298-3284	Sequence 3284, Ap	637	25	56.8	519	9	US-10-152-370-210	Sequence 210, App
565	25	56.8	420	11	US-11-188-298-980	Sequence 980, App	638	25	56.8	519	11	US-11-280-153-210	Sequence 210, App
566	25	56.8	423	9	US-10-915-002-201	Sequence 201, App	639	25	56.8	520	11	US-11-087-099-10037	Sequence 10337, A
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573	25	56.8	432	11	US-11-188-298-18125	Sequence 18125, A	646	25	56.8	541	11	US-11-079-463-7846	Sequence 7846, Ap
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577	25	56.8	433	11	US-11-188-298-7175	Sequence 7175, Ap	650	25	56.8	565	11	US-11-152-366-41	Sequence 41, Appl
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586	25	56.8	441	11	US-11-188-298-2033	Sequence 2033, Ap	659	25	56.8	634	11	US-11-079-457-26	Sequence 26, Appl
587	25	56.8	443	11	US-11-079-463-9709	Sequence 9709, Ap	660	25	56.8	634	11	US-11-073-460-26	Sequence 26, Appl
588	25	56.8	443	11	US-11-188-298-2539	Sequence 2539, Ap	661	25	56.8	634	11	US-11-073-460-26	Sequence 129, App
589	25	56.8	443	11	US-11-188-298-13300	Sequence 13300, A	662	25	56.8	640	9	US-10-506-458-129	Sequence 27708, A
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591	25	56.8	448	11	US-11-188-298-14870	Sequence 14870, A	664	25	56.8	671	9	US-10-507-720-20	Sequence 20, Appl
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594	25	56.8	449	11	US-11-096-568A-17323	Sequence 17323, A	667	25	56.8	688	11	US-11-040-218-27	Sequence 27, Appl
595	25	56.8	453	11	US-11-079-463-10327	Sequence 10327, A	668	25	56.8	689	11	US-11-096-568A-27707	Sequence 27707, A
596	25	56.8	456	9	US-10-194-487-188	Sequence 188, App	669	25	56.8	699	11	US-11-072-512-2814	Sequence 2814, Ap
597	25	56.8	456	9	US-10-195-883-188	Sequence 188, App	670	25	56.8	701	11	US-11-188-298-19841	Sequence 19841, A
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599	25	56.8	456	9	US-10-195-889-188	Sequence 189, App	672	25	56.8	711	11	US-11-098-666-10917	Sequence 10917, A
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601	25	56.8	456	11	US-11-000-463-451	Sequence 451, App	674	25	56.8	742	11	US-11-188-298-10239	Sequence 10239, A
602	25	56.8	456	11	US-11-000-463-923	Sequence 923, App	675	25	56.8	742	11	US-11-188-298-19716	Sequence 19716, A
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604	25	56.8	458	11	US-11-188-298-2882	Sequence 2882, Ap	677	25	56.8	750	11	US-11-072-512-2453	Sequence 2453, Ap
605	25	56.8	458	11	US-11-188-298-12578	Sequence 12578, A	678	25	56.8	768	11	US-11-079-463-10296	Sequence 10296, A
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681	25	56.8	799	11	US-11-072-512-2335	Sequence 2335, Ap	754	24	54.5	165	11	US-11-087-099-1465	Sequence 1465, Ap
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683	25	56.8	813	11	US-11-079-463-6867	Sequence 4637, Ap	756	24	54.5	171	9	US-10-506-454-2	Sequence 2, App1
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685	25	56.8	820	11	US-11-096-568A-30984	Sequence 30984, A	758	24	54.5	171	11	US-11-087-099-497	Sequence 497, App
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695	25	56.8	1211	11	US-11-188-298-10688	Sequence 10688, A	768	24	54.5	193	9	US-10-821-234-1439	Sequence 1439, Ap
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703	25	56.8	3396	8	US-10-505-928-449	Sequence 449, App1	776	24	54.5	212	11	US-11-096-568A-32804	Sequence 32804, A
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706	25	56.8	4128	9	US-10-770-726-77	Sequence 77, App	779	24	54.5	218	11	US-11-096-568A-17004	Sequence 17004, A
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715	24	54.5	73	9	US-10-194-487-396	Sequence 396, App	788	24	54.5	240	11	US-10-786-065-6	Sequence 6, App1
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718	24	54.5	73	9	US-10-195-889-396	Sequence 396, App	791	24	54.5	245	9	US-10-786-065-7	Sequence 7, App1
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826	24	54.5	262	11	US-11-096-568A-33133	Sequence 33133, A	899	24	54.5	342	11	US-11-098-686-10807	Sequence 10807, A
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846	24	54.5	300	9	US-10-195-888-132	Sequence 132, App	919	24	54.5	362	11	US-11-188-298-5651	Sequence 8253, Ap
847	24	54.5	300	9	US-10-195-889-132	Sequence 132, App	920	24	54.5	362	11	US-11-188-298-8253	Sequence 11456, A
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854	24	54.5	309	9	US-10-745-586-145	Sequence 145, App	927	24	54.5	368	11	US-11-045-004-702	Sequence 7250, App
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863	24	54.5	309	11	US-11-188-298-14399	Sequence 14399, A	936	24	54.5	380	11	US-11-188-298-1262	Sequence 1262, Ap
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872	24	54.5	318	11	US-11-188-298-15709	Sequence 15709, A	945	24	54.5	395	11	US-11-096-568A-29654	Sequence 29654, A
873	24	54.5	322	9	US-10-467-657-166	Sequence 166, App	946	24	54.5	395	11	US-11-096-568A-29630	Sequence 29630, A
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877	24	54.5	327	11	US-11-087-099-6412	Sequence 6412, Ap	950	24	54.5	400	9	US-11-069-742-74	Sequence 74, App1
878	24	54.5	328	11	US-11-045-004-2617	Sequence 2617, Ap	951	24	54.5	401	11	US-11-096-568A-34085	Sequence 34085, A
879	24	54.5	330	9	US-10-786-065-8	Sequence 8, App1	952	24	54.5	401	11	US-11-096-568A-32162	Sequence 32162, A
880	24	54.5	330	9	US-10-786-065-9	Sequence 9, App1	953	24	54.5	404	11	US-11-096-568A-32947	Sequence 32947, A
881	24	54.5	330	9	US-10-786-065-10	Sequence 10, App1	954	24	54.5	405	11	US-11-188-298-15618	Sequence 15618, A
882	24	54.5	330	11	US-11-156-084-50	Sequence 50, App1	955	24	54.5	407	11	US-11-087-099-730	Sequence 730, App
883	24	54.5	330	11	US-11-096-568A-7138	Sequence 7138, Ap	956	24	54.5	407	11	US-11-096-568A-33132	Sequence 33132, A
884	24	54.5	330	11	US-11-096-568A-27004	Sequence 27004, A	957	24	54.5	409	11	US-11-096-568A-32946	Sequence 32946, A
885	24	54.5	332	11	US-11-188-298-13918	Sequence 13918, A	958	24	54.5	411	11	US-11-087-099-9840	Sequence 9840, Ap
886	24	54.5	333	9	US-10-878-556A-48	Sequence 48, App1	959	24	54.5	414	11	US-11-087-099-2164	Sequence 2164, Ap
887	24	54.5	335	11	US-11-087-099-10798	Sequence 10798, A	960	24	54.5	414	11	US-11-188-298-3014	Sequence 3014, Ap
888	24	54.5	336	11	US-11-156-084-29	Sequence 29, App1	961	24	54.5	415	11	US-11-045-004-2161	Sequence 2161, Ap
889	24	54.5	336	11	US-11-156-084-51	Sequence 51, App1	962	24	54.5	415	11	US-11-045-004-1288	Sequence 1288, Ap
890	24	54.5	336	11	US-11-128-653-34	Sequence 34, App1	963	24	54.5	419	11	US-11-126-113-25	Sequence 25, App1
891	24	54.5	337	11	US-11-126-313-20	Sequence 20, App1	964	24	54.5	419	11	US-11-086-568A-29953	Sequence 29953, A
892	24	54.5	337	11	US-11-126-313-21	Sequence 21, App1	965	24	54.5	419	11	US-11-188-298-2379	Sequence 2379, Ap
893	24	54.5	338	11	US-11-096-568A-12411	Sequence 12411, A	966	24	54.5	419	11	US-11-188-298-19012	Sequence 19012, A
894	24	54.5	338	11	US-11-188-298-6312	Sequence 6312, Ap	967	24	54.5	419	11	US-11-188-298-19012	Sequence 22552, A
895	24	54.5	339	11	US-11-096-568A-32654	Sequence 32654, A	968	24	54.5	420	11	US-11-172-740-575	Sequence 575, App
896	24	54.5	339	11	US-11-045-004-1404	Sequence 1404, Ap	969	24	54.5	421	11	US-11-079-463-9698	Sequence 9698, Ap
897	24	54.5	341	11	US-11-172-740-977	Sequence 977, App	970	24	54.5	421	11	US-11-079-463-9698	Sequence 9698, Ap

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971 24 54.5 422 11 US-11-188-298-20618 Sequence 20618, A
972 24 54.5 423 11 US-11-079-463-7331 Sequence 7331, Ap
973 24 54.5 425 11 US-11-045-004-1988 Sequence 1988, Ap
974 24 54.5 426 11 US-11-087-099-576 Sequence 576, App
975 24 54.5 426 11 US-11-188-298-8052 Sequence 8052, Ap
976 24 54.5 426 11 US-11-045-004-1097 Sequence 1097, Ap
977 24 54.5 428 11 US-11-188-298-11514 Sequence 11514, A
978 24 54.5 431 11 US-11-096-568A-23052 Sequence 23052, A
979 24 54.5 431 11 US-11-079-463-8333 Sequence 8333, Ap
980 24 54.5 432 11 US-11-063-343-32 Sequence 32, Appl
981 24 54.5 433 11 US-11-087-099-4413 Sequence 4413, Ap
982 24 54.5 433 11 US-11-188-298-15780 Sequence 15780, A
983 24 54.5 435 9 US-10-786-065-5 Sequence 5, Appl
984 24 54.5 437 11 US-11-150-845-28 Sequence 28, Appl
985 24 54.5 437 11 US-11-150-845-30 Sequence 30, Appl
986 24 54.5 437 11 US-11-150-487-28 Sequence 28, Appl
987 24 54.5 437 11 US-11-150-487-30 Sequence 30, Appl
988 24 54.5 438 11 US-11-096-568A-17495 Sequence 17495, A
989 24 54.5 447 9 US-10-821-234-1584 Sequence 1584, Ap
990 24 54.5 447 9 US-10-858-730-220 Sequence 220, App
991 24 54.5 447 9 US-10-784-004-378 Sequence 378, App
992 24 54.5 447 9 US-10-784-004-698 Sequence 698, App
993 24 54.5 447 9 US-10-784-004-932 Sequence 932, App
994 24 54.5 447 9 US-10-784-004-1077 Sequence 1077, Ap
995 24 54.5 447 11 US-11-265-288-10 Sequence 10, Appl
996 24 54.5 451 8 US-10-505-928-509 Sequence 509, App
997 24 54.5 452 11 US-11-098-686-10713 Sequence 10713, A
998 24 54.5 453 11 US-11-087-099-4049 Sequence 4049, Ap
999 24 54.5 453 11 US-11-087-099-4060 Sequence 4060, Ap
1000 24 54.5 454 11 US-11-188-298-3467 Sequence 3467, Ap
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## ALIGNMENTS

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RESULT 1
US-10-530-061-486
; Sequence 486, Application US/10530061
; Publication No. US2006079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530.061
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 486
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-486
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Query Match 100.0%; Score 44; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 ELTEVEFEFA 9
Db 1 ELTEVEFEFA 9
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RESULT 2
US-10-530-253-15
; Sequence 15, Application US/10530253
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15
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Query Match 100.0%; Score 44; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 ELTEVEFEFA 9
Db 40 ELTEVEFEFA 48
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RESULT 3
US-11-079-463-10004
; Sequence 10004, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDS FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10004
; LENGTH: 312
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-10004
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Query Match 75.0%; Score 33; DB 11; Length 312;
Best Local Similarity 55.6%; Pred. No. 28;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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QY 1 ELTEVEFEFA 9
Db 130 ELTEVEFEFA 138
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RESULT 4
US-11-096-568A-25122
; Sequence 25122, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides f
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
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NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 25122  
; LENGTH: 441  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(441)  
; OTHER INFORMATION: Ceres Seq. ID no. 12566007  
US-11-096-568A-25122

Query Match 75.0%; Score 33; DB 11; Length 441;  
Best Local Similarity 75.0%; Pred. No. 41;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 L7EVEFEFA 9  
Db 24 L7EVEFEFA 31

## RESULT 5

US-10-530-253-19  
; Sequence 19, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 19  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 39  
US-10-530-253-19

Query Match 72.7%; Score 32; DB 9; Length 158;  
Best Local Similarity 85.7%; Pred. No. 21;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEFA 9  
Db 42 TEVEFEFA 48

## RESULT 6

US-10-530-253-20  
; Sequence 20, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 20  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 45  
US-10-530-253-20

Query Match 72.7%; Score 32; DB 9; Length 158;  
Best Local Similarity 66.7%; Pred. No. 21;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EL7EVEFEFA 9  
Db 40 ER7EVEQFA 48

## RESULT 7

US-10-530-253-26  
; Sequence 26, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Casasetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 26  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 68  
US-10-530-253-26

Query Match 72.7%; Score 32; DB 9; Length 158;  
Best Local Similarity 85.7%; Pred. No. 21;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEFA 9  
Db 42 TEVEFEFA 48

## RESULT 8

US-11-087-099-3773  
; Sequence 3773, Application US/11087099  
; Publication No. US20060041961A1  
; GENERAL INFORMATION:  
; APPLICANT: Adad, Mark S. et al.  
; TITLE OF INVENTION: Genes and Uses for Plant Improvement  
; FILE REFERENCE: 38-21(53450)B EP  
; CURRENT APPLICATION NUMBER: US/11/087,099  
; PRIOR FILING DATE: 2005-03-22  
; NUMBER OF SEQ ID NOS: 12464  
; SEQ ID NO 3773  
; LENGTH: 219  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(219)  
; OTHER INFORMATION: unsure at all Xaa locations  
US-11-087-099-3773

Query Match 72.7%; Score 32; DB 11; Length 219;  
Best Local Similarity 75.0%; Pred. No. 30;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 8  
Db 146 EMREVEFEF 153

## RESULT 9

US-11-096-568A-31317  
; Sequence 31317, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; TITLE OF INVENTION: Thierby  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31317  
; LENGTH: 331  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(331)  
; OTHER INFORMATION: Ceres Seq. ID no. 15222683  
US-11-096-568A-31317

Query Match 70.5%; Score 31; DB 11; Length 331;  
Best Local Similarity 75.0%; Pred. No. 77;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 8  
Db 306 DLTEKFEF 313

## RESULT 10

US-11-188-298-673  
; Sequence 673, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 673  
; LENGTH: 336  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus subsp. aureus Mu50  
US-11-188-298-673

Query Match 70.5%; Score 31; DB 11; Length 336;  
Best Local Similarity 66.7%; Pred. No. 78;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 9  
Db 291 DLREAFEF 299

## RESULT 11

US-11-188-298-21543  
; Sequence 21543, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B

; CURRENT APPLICATION NUMBER: US/11/188,298

; CURRENT FILING DATE: 2005-07-22

; PRIOR APPLICATION NUMBER: 60/592,978

; PRIOR FILING DATE: 2004-07-31

; NUMBER OF SEQ ID NOS: 22569

; SEQ ID NO 21543

; LENGTH: 336

; TYPE: PRT

; ORGANISM: Staphylococcus aureus subsp. aureus MW2

US-11-188-298-21543

## RESULT 12

US-11-096-568A-31316  
; Sequence 31316, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; TITLE OF INVENTION: Thierby  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31316  
; LENGTH: 512  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(512)  
; OTHER INFORMATION: Ceres Seq. ID no. 15222682  
US-11-096-568A-31316

Query Match 70.5%; Score 31; DB 11; Length 512;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEFEF 8  
Db 487 DLTEKFEF 494

## RESULT 13

US-11-096-568A-31315  
; Sequence 31315, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; TITLE OF INVENTION: Thierby  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 31315  
; LENGTH: 520  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(520)  
; OTHER INFORMATION: Ceres Seq. ID no. 15222681  
US-11-096-568A-31315

Query Match 70.5%; Score 31; DB 11; Length 520;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFE 8  
DB 495 ELTKVFE 502

RESULT 14  
US-09-978-360A-725  
; Sequence 725, Application US/09978360A  
; Publication No. US20060009633A9  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Jean-Baptiste Dumas Milne  
; APPLICANT: Duclert, Aymeric  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Joberet, Severin  
; APPLICANT: Clusel, Catherine  
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides  
; FILE REFERENCE: 56.USA.CIP  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: US 60/066,677  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: US 60/069,957  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: US 60/074,121  
; PRIOR FILING DATE: 1998-02-09  
; PRIOR APPLICATION NUMBER: US 60/081,563  
; PRIOR FILING DATE: 1998-04-13  
; PRIOR APPLICATION NUMBER: US 60/096,116  
; PRIOR FILING DATE: 1998-08-10  
; PRIOR APPLICATION NUMBER: US 60/099,273  
; PRIOR FILING DATE: -09-04  
; PRIOR APPLICATION NUMBER: US 09/191,997  
; PRIOR FILING DATE: 1998-11-13  
; PRIOR APPLICATION NUMBER: US 09/215,435  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: PCT/IB98/02122  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: US 09/247,155  
; PRIOR FILING DATE: 1999-02-09  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 810  
; SOFTWARE: Patent.pm  
; SEQ ID NO 725  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-978-360A-725

Query Match 68.2%; Score 30; DB 7; Length 109;  
Best Local Similarity 85.7%; Pred. No. 35;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
DB 83 ELTKVFE 89

RESULT 15  
US-09-978-360A-740  
; Sequence 740, Application US/09978360A  
; Publication No. US20060009633A9  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Jean-Baptiste Dumas Milne  
; APPLICANT: Duclert, Aymeric  
; APPLICANT: Bougueleret, Lydie  
; APPLICANT: Joberet, Severin  
; APPLICANT: Clusel, Catherine  
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides  
; FILE REFERENCE: 56.USA.CIP

CURRENT APPLICATION NUMBER: US/09/978,360A  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: US 60/066,677  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: US 60/069,957  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: US 60/074,121  
; PRIOR FILING DATE: 1998-02-09  
; PRIOR APPLICATION NUMBER: US 60/081,563  
; PRIOR FILING DATE: 1998-04-13  
; PRIOR APPLICATION NUMBER: US 60/096,116  
; PRIOR FILING DATE: 1998-08-10  
; PRIOR APPLICATION NUMBER: US 60/099,273  
; PRIOR FILING DATE: -09-04  
; PRIOR APPLICATION NUMBER: US 09/191,997  
; PRIOR FILING DATE: 1998-11-13  
; PRIOR APPLICATION NUMBER: US 09/215,435  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: PCT/IB98/02122  
; PRIOR FILING DATE: 1998-12-17  
; PRIOR APPLICATION NUMBER: US 09/247,155  
; PRIOR FILING DATE: 1999-02-09  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 810  
; SOFTWARE: Patent.pm  
; SEQ ID NO 740  
; LENGTH: 142  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-978-360A-740

Query Match 68.2%; Score 30; DB 7; Length 142;  
Best Local Similarity 85.7%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
DB 116 ELTKVFE 122

RESULT 16  
US-10-505-928-189  
; Sequence 189, Application US/10505928  
; Publication No. US20060088532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ludwig Institute for Cancer Research et al.  
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES  
; FILE REFERENCE: 28967/39178  
; CURRENT APPLICATION NUMBER: US/10/505,928  
; CURRENT FILING DATE: 2004-08-27  
; PRIOR APPLICATION NUMBER: US 60/363,019  
; PRIOR FILING DATE: 2002-03-07  
; NUMBER OF SEQ ID NOS: 866  
; SOFTWARE: Patent.in 3.2  
; SEQ ID NO 189  
; LENGTH: 142  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-505-928-189

Query Match 68.2%; Score 30; DB 8; Length 142;  
Best Local Similarity 85.7%; Pred. No. 48;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7  
DB 116 ELTKVFE 122

RESULT 17  
US-10-530-253-25  
; Sequence 25, Application US/10530253  
; Publication No. US20060014926A1

```
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 25
LENGTH: 160
TYPE: PRT
ORGANISM: Human papillomavirus type 59
US-10-530-253-25
```

```
Query Match 68.2%; Score 30; DB 9; Length 160;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 4 EVFEFA 9
Db 43 EVFEFA 48
```

## RESULT 18

```
US-11-072-512-2458
Sequence 2458, Application US/11072512
Publication No. US2006002945A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: MAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOTYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4086
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2458
LENGTH: 311
TYPE: PRT
ORGANISM: Homo sapiens
US-11-072-512-2458
```

```
Query Match 68.2%; Score 30; DB 11; Length 311;
Best Local Similarity 66.7%; Pred. No. 1,2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy 1 ELTEVFEEFA 9
Db 37 ENSLFEFA 45
```

```
RESULT 19
US-11-188-298-7665
Sequence 7665, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 7665
LENGTH: 396
TYPE: PRT
ORGANISM: Pseudomonas syringae pv. tomato str. DC3000
US-11-188-298-7665
```

```
Query Match 68.2%; Score 30; DB 11; Length 396;
Best Local Similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy 2 LTEVFEEFA 9
Db 186 LTRIFEFA 193
```

```
RESULT 20
US-11-098-686-10532
Sequence 10532, Application US/11098686
Publication No. US20060024696A1
GENERAL INFORMATION:
APPLICANT: Kapur, Vivek and Gebhart, Connie J.
TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
FILE REFERENCE: 09531-128001
CURRENT APPLICATION NUMBER: US/11/098,686
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31318
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: US 60/416,395
PRIOR FILING DATE: 2002-10-04
NUMBER OF SEQ ID NOS: 11433
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10532
LENGTH: 732
TYPE: PRT
ORGANISM: Lawsonia intracellularis
US-11-098-686-10532
```

```
Query Match 68.2%; Score 30; DB 11; Length 732;
Best Local Similarity 77.8%; Pred. No. 3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Oy 1 ELTEVFEEFA 9
Db 483 ELTEVFEEFA 491
```

```
RESULT 21
US-11-000-463-721
Sequence 721, Application US/11000463
Publication No. US20050266423A1
GENERAL INFORMATION:
APPLICANT: Tang, Y Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
```

```
APPLICANT: Chen, Rui-hong
APPLICANT: Qian, Xiaohong B.
APPLICANT: Wang, Zhiwei
APPLICANT: Wehrman, Tom
APPLICANT: Zhang, Jie
APPLICANT: Zhou, Ping
APPLICANT: Cao, Yi-Cheng
APPLICANT: Drmanac, Radjce T.
TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
FILE REFERENCE: 785CIP4CN
CURRENT APPLICATION NUMBER: US/11/000,463
CURRENT FILING DATE: 2004-11-29
PRIOR APPLICATION NUMBER: 10/291,265
PRIOR FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: PCT/US01/02623
PRIOR FILING DATE: 2001-01-25
PRIOR APPLICATION NUMBER: 09/922,279
PRIOR FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: 09/617,746
PRIOR FILING DATE: 2000-07-17
PRIOR APPLICATION NUMBER: 09/631,451
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 09/633,870
PRIOR FILING DATE: 2000-09-15
NUMBER OF SEQ ID NOS: 944
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 721
LENGTH: 1070
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)...(1070)
OTHER INFORMATION: Xaa = any amino acid or nothing
US-11-000-463-721

Query Match      68.2%; Score 30; DB 11; Length 1070;
Best Local Similarity 62.5%; Pred. No. 4.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFEF 8
DB      259 ELSDVDF 266

RESULT 22
US-11-000-463-249
Sequence 249, Application US/11000463
Publication No. US20050266423A1
GENERAL INFORMATION:
APPLICANT: Tang, Y Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Chen, Rui-hong
APPLICANT: Qian, Xiaohong B.
APPLICANT: Wang, Zhiwei
APPLICANT: Wehrman, Tom
APPLICANT: Zhang, Jie
APPLICANT: Zhou, Ping
APPLICANT: Cao, Yi-Cheng
APPLICANT: Drmanac, Radjce T.
TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
FILE REFERENCE: 785CIP4CN
CURRENT APPLICATION NUMBER: US/11/000,463
CURRENT FILING DATE: 2004-11-29
PRIOR APPLICATION NUMBER: 10/291,265
PRIOR FILING DATE: 2002-11-08
PRIOR APPLICATION NUMBER: PCT/US01/02623
PRIOR FILING DATE: 2001-01-25
PRIOR APPLICATION NUMBER: 09/922,279
PRIOR FILING DATE: 2001-08-03
```

```
PRIOR APPLICATION NUMBER: 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: 09/617,746
PRIOR FILING DATE: 2000-07-17
PRIOR APPLICATION NUMBER: 09/631,451
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 09/633,870
PRIOR FILING DATE: 2000-09-15
NUMBER OF SEQ ID NOS: 944
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 249
LENGTH: 1194
TYPE: PRT
ORGANISM: Homo sapiens
US-11-000-463-249

Query Match      68.2%; Score 30; DB 11; Length 1194;
Best Local Similarity 62.5%; Pred. No. 5.2e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFEF 8
DB      259 ELSDVDF 266

RESULT 23
US-11-043-889-47
Sequence 47, Application US/11043889
Publication No. US2006008819A1
GENERAL INFORMATION:
APPLICANT: Gluckman, Maria Alexandra
APPLICANT: Meyers, Rachel E.
TITLE OF INVENTION: NOVEL 38594, 57312, 53659, 57250, 63760, 49938, 32146,
TITLE OF INVENTION: 57259, 67118, 67067, 62092, FBH58295FL, 57235,
TITLE OF INVENTION: AND 57255alt MOLECULES AND USES THEREFOR
FILE REFERENCE: MP102-09SDVDMNIM
CURRENT APPLICATION NUMBER: US/11/043,889
CURRENT FILING DATE: 2005-01-26
PRIOR APPLICATION NUMBER: US 10/154,419
PRIOR FILING DATE: 2002-05-22
PRIOR APPLICATION NUMBER: 09/858194
PRIOR FILING DATE: 2001-05-14
PRIOR APPLICATION NUMBER: US 60/204211
PRIOR FILING DATE: 2000-05-12
PRIOR APPLICATION NUMBER: US 09/895811
PRIOR FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: US 60/215376
PRIOR FILING DATE: 2000-06-29
PRIOR APPLICATION NUMBER: US 09/919781
PRIOR FILING DATE: 2001-07-31
PRIOR APPLICATION NUMBER: US 60/221769
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 09/957664
PRIOR FILING DATE: 2001-09-19
PRIOR APPLICATION NUMBER: US 60/233790
PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: US 09/964295
PRIOR FILING DATE: 2001-09-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 59
SOFTWARE: FastSeq Version 4.0
SEQ ID NO 47
LENGTH: 1508
TYPE: PRT
ORGANISM: Mus musculus
US-11-043-889-47

Query Match      68.2%; Score 30; DB 11; Length 1508;
Best Local Similarity 62.5%; Pred. No. 6.8e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 ELTEVFEF 8
```

Db 568 ELSDFDF 575

## RESULT 24

US-10-530-061-564  
; Sequence 564, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060\_03US02/EXS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 564  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-564

Query Match 65.9%; Score 29; DB 9; Length 10;  
Best Local Similarity 71.4%; Pred. No. 3.9;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEFA 9  
|||:|  
Db 2 TEVYQFA 8

## RESULT 25

US-11-045-004-2503  
; Sequence 2503, Application US/11045004  
; Publication No. US20060078901A1  
; GENERAL INFORMATION:  
; APPLICANT: BUCHRISSER, CARMEN  
; APPLICANT: FRANGEUL, LIONEL  
; APPLICANT: COUVE, ELISABETH  
; APPLICANT: RUSNIOK, CHRISTOPHE  
; APPLICANT: FSJHI, HAFIDA  
; APPLICANT: DEHOUX, PIERRE  
; APPLICANT: DUSSENGET, OLIVIER  
; APPLICANT: CHETOUANI, FARID  
; APPLICANT: NEDJARI, HAFED  
; APPLICANT: GLASER, PHILIPPE  
; APPLICANT: KUNST, FRANCK  
; APPLICANT: COSSART, PASCALE  
; APPLICANT: DANIELS, JUSTIN  
; APPLICANT: GOEBEL, WERNER  
; APPLICANT: KREFT, JURGEN  
; APPLICANT: KUHN, MICHAEL  
; APPLICANT: NG, EVA  
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
; APPLICANT: GARRIDO-GARCIA, PATRICIA  
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
; APPLICANT: AMEND, ALEXANDRA  
; APPLICANT: CHAKRABORTY, TRINAD  
; APPLICANT: DOMANN, EUGEN  
; APPLICANT: HAIN, THORSTEN  
; APPLICANT: BERGER, PATRICK  
; APPLICANT: CHARBIT, ALAIN  
; APPLICANT: DURANT, LIONEL  
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO

APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA  
APPLICANT: MADUENIO, ENCARNIA  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: WEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUF, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOSS, HAMUT

; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
; FILE REFERENCE: 05394,0018-02  
; CURRENT APPLICATION NUMBER: US/11/045,004  
; CURRENT FILING DATE: 2005-01-28  
; PRIOR APPLICATION NUMBER: 10/637,657  
; PRIOR FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: 10/257,023  
; PRIOR FILING DATE: 2002-10-08  
; PRIOR APPLICATION NUMBER: PCT/FR01/01118  
; PRIOR FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: FR 00/04,629  
; PRIOR FILING DATE: 2000-04-11  
; NUMBER OF SEQ ID NOS: 2854  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 2503  
; LENGTH: 121  
; TYPE: PRT  
; ORGANISM: Listeria monocytogenes  
US-11-045-004-2503

Query Match 65.9%; Score 29; DB 11; Length 121;  
Best Local Similarity 62.5%; Pred. No. 64;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 LTEVEFEFA 9  
|||:|  
Db 5 LTKVFDYA 12

## RESULT 26

US-10-793-626-408  
; Sequence 408, Application US/10793626  
; Publication No. US20050255478A1  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: PU3480US  
; CURRENT APPLICATION NUMBER: US/10/793,626  
; CURRENT FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 408  
; LENGTH: 167  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: amino acid sequence  
US-10-793-626-408

Query Match 65.9%; Score 29; DB 9; Length 167;  
Best Local Similarity 71.4%; Pred. No. 92;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEFA 9  
|||:|  
Db 103 TELVQFA 109

## RESULT 27

```
US-10-784-004-665
; Sequence 665, Application US/10784004
; Publication No. US20060084066A1
; GENERAL INFORMATION:
; APPLICANT: Biogen Idec
; TITLE OF INVENTION: Surrogate Markers of Pain
; FILE REFERENCE: 08201.6029-00000
; CURRENT APPLICATION NUMBER: US/10/784,004
; CURRENT FILING DATE: 2004-02-20
; NUMBER OF SEQ ID NOS: 1251
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 665
; LENGTH: 222
; TYPE: PRT
; ORGANISM: human
US-10-784-004-665

Query Match
Best Local Similarity 65.9%; Score 29; DB 9; Length 222;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEEF 8
Db 90 ESSEIEEF 97

RESULT 28
US-10-784-004-343
; Sequence 343, Application US/10784004
; Publication No. US20060084066A1
; GENERAL INFORMATION:
; APPLICANT: Biogen Idec
; TITLE OF INVENTION: Surrogate Markers of Pain
; FILE REFERENCE: 08201.6029-00000
; CURRENT APPLICATION NUMBER: US/10/784,004
; CURRENT FILING DATE: 2004-02-20
; NUMBER OF SEQ ID NOS: 1251
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 343
; LENGTH: 223
; TYPE: PRT
; ORGANISM: rat
US-10-784-004-343

Query Match
Best Local Similarity 65.9%; Score 29; DB 9; Length 223;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEEF 8
Db 91 ESSEIEEF 98

RESULT 29
US-11-079-463-5522
; Sequence 5522, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5522
; LENGTH: 228
; TYPE: PRT
; ORGANISM: B.fragilis
```

```
US-11-079-463-5522

Query Match
Best Local Similarity 65.9%; Score 29; DB 11; Length 228;
Best Local Similarity 85.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELTEVEFE 7
Db 106 EATEVFE 112

RESULT 30
US-11-096-568A-23063
; Sequence 23063, Application US/11096568A
; Publication No. US20060046240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23063
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(283)
; OTHER INFORMATION: Ceres Seq. ID no. 12411165
US-11-096-568A-23063

Query Match
Best Local Similarity 65.9%; Score 29; DB 11; Length 283;
Best Local Similarity 55.6%; Pred. No. 1.7e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVEFEPA 9
Db 19 EITFEFFSFS 27

RESULT 31
US-10-467-657-3878
; Sequence 3878, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: CONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWIn99, version 1.04
; SEQ ID NO 3878
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3878

Query Match
Best Local Similarity 65.9%; Score 29; DB 9; Length 289;
Best Local Similarity 71.4%; Pred. No. 1.7e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 TEVEFEPA 9
Db 223 TELFDEPA 229
```

```
RESULT 32
US-11-188-298-2935
; Sequence 2935, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 2935
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Chlamydophila pneumoniae CML029
US-11-188-298-2935
```

```
Query Match          65.9%; Score 29; DB 11; Length 303;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 LTFVFF 8
Db      75 LTNIFEF 81
```

```
RESULT 33
US-11-188-298-11326
; Sequence 11326, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11326
; LENGTH: 305
; TYPE: PRT
; ORGANISM: Chlamydophila pneumoniae AR39
US-11-188-298-11326
```

```
Query Match          65.9%; Score 29; DB 11; Length 305;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 LTFVFF 8
Db      77 LTNIFEF 83
```

```
RESULT 34
US-10-506-454-61
; Sequence 61, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbintina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
```

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; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 61
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-61
```

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Query Match          65.9%; Score 29; DB 9; Length 340;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 ELTFVFFFA 9
Db      204 ELDFVFFELA 212
```

```
RESULT 35
US-11-096-568A-23062
; Sequence 23062, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23062
; LENGTH: 342
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(342)
; OTHER INFORMATION: Cerec Seq. ID no. 12411184
US-11-096-568A-23062
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Query Match          65.9%; Score 29; DB 11; Length 342;
Best Local Similarity 55.6%; Pred. No. 2.1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
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OY      1 ELTFVFFFA 9
Db      78 ELTFVFFSFS 86
```

```
RESULT 36
US-11-087-099-6281
; Sequence 6281, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6281
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Pseudomonas syringae pv. syringae B728a
US-11-087-099-6281
```

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Query Match          65.9%; Score 29; DB 11; Length 345;
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Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVF 9  
Db 322 ELTEVDF 330

## RESULT 37

US-11-188-298-19224  
; Sequence 19224, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 19224  
; LENGTH: 356  
; TYPE: PRT  
; ORGANISM: Bacillus subtilis subsp. subtilis str. 168  
US-11-188-298-19224

Query Match 65.9%; Score 29; DB 11; Length 356;  
Best Local Similarity 100.0%; Pred. No. 2.1e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVF 6  
Db 294 ELTEVF 299

## RESULT 38

US-10-485-517-227  
; Sequence 227, Application US/10485517  
; Publication No. US2005025629A1  
; GENERAL INFORMATION:  
; APPLICANT: University of Sheffield  
; APPLICANT: Biosynex Incorporated  
; APPLICANT: Foster, Simon  
; APPLICANT: Mond, James  
; TITLE OF INVENTION: Antigenic Polypeptides  
; FILE REFERENCE: P100629WO  
; CURRENT APPLICATION NUMBER: US/10/485,517  
; PRIOR FILING DATE: 2004-02-02  
; PRIOR APPLICATION NUMBER: GB 0118825.9  
; PRIOR FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: GB 0200349.9  
; PRIOR FILING DATE: 2002-01-09  
; NUMBER OF SEQ ID NOS: 424  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 227  
; LENGTH: 358  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus  
US-10-485-517-227

Query Match 65.9%; Score 29; DB 9; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVF 6  
Db 293 ELTEVF 298

RESULT 39  
US-10-793-626-18  
; Sequence 18, Application US/10793626

; Publication No. US20050255478A1

; GENERAL INFORMATION:  
; APPLICANT: KIMBERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: P03480US  
; CURRENT APPLICATION NUMBER: US/10/793,626  
; PRIOR FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 4472  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 358  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
US-10-793-626-18

Query Match 65.9%; Score 29; DB 9; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVF 6  
Db 293 ELTEVF 298

## RESULT 40

US-11-188-298-14936  
; Sequence 14936, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 14936  
; LENGTH: 358  
; TYPE: PRT  
; ORGANISM: Staphylococcus epidermidis ATCC 12228  
US-11-188-298-14936

Query Match 65.9%; Score 29; DB 11; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVF 6  
Db 293 ELTEVF 298

## RESULT 41

US-11-188-298-21490  
; Sequence 21490, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 21490  
; LENGTH: 358  
; TYPE: PRT

; ORGANISM: Staphylococcus aureus subsp. aureus Mu50  
US-11-188-298-21490

Query Match 65.9%; Score 29; DB 11; Length 358;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVP 6  
|:|||||  
Db 293 ELTEVP 298

RESULT 42  
US-11-188-298-16138  
; Sequence 16138, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 16138  
; LENGTH: 416  
; TYPE: PRT  
; ORGANISM: Thermobifida fusca  
US-11-188-298-16138

Query Match 65.9%; Score 29; DB 11; Length 416;  
Best Local Similarity 100.0%; Pred. No. 2.6e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVP 6  
|:|||||  
Db 352 ELTEVP 357

RESULT 43  
US-10-510-386-98  
; Sequence 98, Application US/10510386  
; Publication No. US20050244922A1  
; GENERAL INFORMATION:  
; APPLICANT: Andersen, Jens Tonne  
; APPLICANT: Andersen, Ib Groth  
; APPLICANT: Jorgensen, Sreen Troels  
; APPLICANT: Olsen, Peter Bjarke  
; APPLICANT: Raasmussen, Michael Dolberg  
; TITLE OF INVENTION: Improved Bacillus Host Cell  
; FILE REFERENCE: 10294.204-US  
; CURRENT APPLICATION NUMBER: US/10/510,386  
; CURRENT FILING DATE: 2004-10-04  
; NUMBER OF SEQ ID NOS: 248  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 98  
; LENGTH: 475  
; TYPE: PRT  
; ORGANISM: Bacillus licheniformis  
US-10-510-386-98

Query Match 65.9%; Score 29; DB 9; Length 475;  
Best Local Similarity 66.7%; Pred. No. 3e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELTEVPEFA 9  
|:|||||  
Db 90 ELKETPEFA 98

RESULT 44  
US-11-188-298-18460

; Sequence 18460, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; CURRENT FILING DATE: 2005-07-22  
; PRIOR APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 18460  
; LENGTH: 492  
; TYPE: PRT  
; ORGANISM: Neurospora crassa  
US-11-188-298-18460

Query Match 65.9%; Score 29; DB 11; Length 492;  
Best Local Similarity 71.4%; Pred. No. 3.1e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVPE 7  
|:|||||  
Db 332 ELTKIFE 338

RESULT 45  
US-10-530-340-12  
; Sequence 12, Application US/10530340  
; Publication No. US2006009379A1  
; GENERAL INFORMATION:  
; APPLICANT: THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS  
; APPLICANT: REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND  
; APPLICANT: HUMAN SERVICES  
; APPLICANT: Teal, Robert Y. L.  
; TITLE OF INVENTION: METHODS FOR CONTROLLING PROLIFERATION OF CELLS  
; FILE REFERENCE: 4239-66642  
; CURRENT APPLICATION NUMBER: US/10/530,340  
; CURRENT FILING DATE: 2005-04-01  
; PRIOR APPLICATION NUMBER: PCT/US03/31321  
; PRIOR FILING DATE: 2003-10-01  
; PRIOR APPLICATION NUMBER: 60/442,005  
; PRIOR FILING DATE: 2003-01-22  
; PRIOR APPLICATION NUMBER: 60/415,867  
; PRIOR FILING DATE: 2002-10-02  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 12  
; LENGTH: 576  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: NS2  
US-10-530-340-12

Query Match 65.9%; Score 29; DB 9; Length 576;  
Best Local Similarity 71.4%; Pred. No. 3.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELTEVPE 7  
|:|||||  
Db 413 EMTEVPD 419

RESULT 46  
US-11-188-298-13299  
; Sequence 13299, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B

CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 13299  
LENGTH: 637  
TYPE: PRT  
ORGANISM: Rickettsia sibirica  
US-11-188-298-13299

Query Match 65.9%; Score 29; DB 11; Length 637;  
Best Local Similarity 62.5%; Pred. No. 4.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEEF 8  
Db 166 ELTEIVDF 173

RESULT 47  
US-11-188-298-14583  
Sequence 14583, Application US/11188298  
Publication No. US20060075522A1

GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 14583  
LENGTH: 637  
TYPE: PRT  
ORGANISM: Rickettsia rickettsii  
US-11-188-298-14583

Query Match 65.9%; Score 29; DB 11; Length 637;  
Best Local Similarity 62.5%; Pred. No. 4.1e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ELTEVEEF 8  
Db 166 ELTEIVDF 173

RESULT 48  
US-11-072-512-2651  
Sequence 2651, Application US/11072512  
Publication No. US20060029945A1

GENERAL INFORMATION:  
APPLICANT: ISOGAI, TAKAO  
APPLICANT: SUGIYAMA, TOMOYASU  
APPLICANT: OTSUKI, TETSUJI  
APPLICANT: WAKAMATSU, AI  
APPLICANT: SATO, HIROYUKI  
APPLICANT: ISHII, SHIZUKO  
APPLICANT: YAMAMOTO, JUN-ICHI  
APPLICANT: ISONO, YUUKO  
APPLICANT: HIO, YURI  
APPLICANT: OTSUKA, KAORU  
APPLICANT: NAGAI, KEIICHI  
APPLICANT: IRIE, RYOTARO  
APPLICANT: TAMECHIKA, ICHIRO  
APPLICANT: SEKI, NAOHICO  
APPLICANT: YOSHIKAWA, TSUTOMU  
APPLICANT: OTSUKA, MOTOKU  
APPLICANT: NAGAHARI, KENJI  
APPLICANT: MASUHO, YASUHIKO  
TITLE OF INVENTION: Novel full length cDNA  
FILE REFERENCE: 084335-0191

CURRENT APPLICATION NUMBER: US/11/072,512  
CURRENT FILING DATE: 2005-03-07  
PRIOR APPLICATION NUMBER: US 60/350,978  
PRIOR FILING DATE: 2002-01-25  
PRIOR APPLICATION NUMBER: JP 2001-379298  
PRIOR FILING DATE: 2001-11-05  
NUMBER OF SEQ ID NOS: 4096  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2651  
LENGTH: 687  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-072-512-2651

Query Match 65.9%; Score 29; DB 11; Length 687;  
Best Local Similarity 77.8%; Pred. No. 4.5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVEEFA 9  
Db 385 ELKEVFEDA 393

RESULT 49  
US-10-506-454-111  
Sequence 111, Application US/10506454  
Publication No. US20060068386A1  
GENERAL INFORMATION:  
APPLICANT: Slesarev, Alexi I  
APPLICANT: Mezhevaeva, Katja V  
APPLICANT: Polushin, Nikolai N  
APPLICANT: Shcherbina, Olga V  
APPLICANT: Shakhova, Vera V  
APPLICANT: Malykh, Andrei G  
APPLICANT: Kozayavkin, Sergei A  
TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile  
TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens  
TITLE OF INVENTION: and Methods of Use Thereof  
FILE REFERENCE: FID001  
CURRENT APPLICATION NUMBER: US/10/506,454  
CURRENT FILING DATE: 2004-08-31  
PRIOR APPLICATION NUMBER: PCT/US03/06664  
PRIOR FILING DATE: 2003-03-04  
PRIOR APPLICATION NUMBER: 60/361,742  
PRIOR FILING DATE: 2002-03-04  
NUMBER OF SEQ ID NOS: 1722  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 111  
LENGTH: 711  
TYPE: PRT  
ORGANISM: Methanopyrus kandleri  
US-10-506-454-111

Query Match 65.9%; Score 29; DB 9; Length 711;  
Best Local Similarity 75.0%; Pred. No. 4.7e+02;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ELTEVEEF 8  
Db 95 ELTNVIEF 102

RESULT 50  
US-10-204-639-60  
Sequence 60, Application US/10204639  
Publication No. US20060063152A1  
GENERAL INFORMATION:  
APPLICANT: Osamu Ohara  
APPLICANT: Takahito Nagase  
APPLICANT: Daisuke Nakajima  
TITLE OF INVENTION: NOVEL GENE AND PROTEIN ENCODED BY THE GENE  
FILE REFERENCE: PH-1416-PCT  
CURRENT APPLICATION NUMBER: US/10/204,639

; CURRENT FILING DATE: 2002-08-22  
; PRIOR APPLICATION NUMBER: JP 2000-389742  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: JP 2001-095524  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: JP 2001-127066  
; PRIOR FILING DATE: 2001-04-25  
; NUMBER OF SEQ ID NOS: 140  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO: 60  
; LENGTH: 1179  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-204-639-60

Query Match 65.9%; Score 29; DB 9; Length 1179;  
Best Local Similarity 85.7%; Pred. No. 8.3e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ELEVEFE 7  
|||  
|||  
Db 960 ELTNVFE 966

Search completed: May 5, 2006, 07:45:50  
Job time : 20.4 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
(without alignments)  
35.602 Million cell updates/sec

Title: US-08-170-344-27  
Perfect score: 45  
Sequence: 1 FAFKDFV 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued Patents\_AA:\*

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- 2: /cgn2\_6/ptodata/1/1aa/6-COMB.pep:\*
- 3: /cgn2\_6/ptodata/1/1aa/H-COMB.pep:\*
- 4: /cgn2\_6/ptodata/1/1aa/RE-COMB.pep:\*
- 5: /cgn2\_6/ptodata/1/1aa/RE-COMB.pep:\*
- 6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	158	1	US-08-247-904B-10
2	45	100.0	158	2	US-08-767-942A-19
3	45	100.0	271	1	US-08-117-083-14
4	45	100.0	278	1	US-09-485-885-21
5	45	100.0	383	2	US-09-485-885-23
6	35	77.8	329	2	US-09-328-352-6272
7	34	75.6	351	2	US-09-252-991A-32396
8	34	75.6	669	2	US-09-345-473B-27
9	34	75.6	669	2	US-08-862-027-27
10	33	73.3	9	1	US-08-787-547-103
11	33	73.3	9	1	US-08-197-484-67
12	33	73.3	9	4	PCT-US95-02121-67
13	33	73.3	22	2	US-09-980-523A-6
14	33	73.3	23	2	US-09-601-729-276
15	33	73.3	151	2	US-09-701-080C-18
16	33	73.3	158	2	US-09-480-523A-2
17	33	73.3	162	1	US-08-316-239B-3
18	33	73.3	162	1	US-08-316-239B-4
19	33	73.3	172	2	US-08-860-165-14
20	33	73.3	172	2	US-09-359-382-14
21	33	73.3	243	2	US-09-462-993-1
22	33	73.3	266	2	US-08-660-165-10
23	33	73.3	266	2	US-09-359-382-10
24	33	73.3	266	2	US-09-367-309A-1
25	33	73.3	273	2	US-09-485-885-4
26	33	73.3	292	2	US-09-485-885-10
27	33	73.3	371	2	US-09-485-885-6

28	33	73.3	390	2	US-09-485-885-14	Sequence 14, Appl
29	32	71.1	99	2	US-09-270-767-60100	Sequence 60100, A
30	32	71.1	175	2	US-09-248-796A-14111	Sequence 14111, A
31	32	71.1	182	1	US-08-117-083-10	Sequence 10, Appl
32	32	71.1	333	2	US-09-562-737-6	Sequence 6, Appl1
33	32	71.1	333	2	US-09-562-737-9	Sequence 9, Appl1
34	32	71.1	401	2	US-09-270-767-44648	Sequence 44648, A
35	32	71.1	502	2	US-09-328-352-6968	Sequence 6968, Ap
36	31	68.9	126	2	US-09-107-532A-7133	Sequence 7133, Ap
37	31	68.9	233	2	US-09-605-703B-2388	Sequence 2388, Ap
38	31	68.9	235	2	US-09-830-230A-616	Sequence 616, Ap
39	31	68.9	274	2	US-09-830-230A-615	Sequence 615, Ap
40	31	68.9	307	2	US-09-248-796A-17597	Sequence 17597, A
41	31	68.9	338	2	US-09-107-433-6666	Sequence 4666, Ap
42	31	68.9	370	2	US-09-270-767-45247	Sequence 45247, A
43	31	68.9	440	2	US-09-583-110-4693	Sequence 4693, Ap
44	31	68.9	556	2	US-09-991-181-160	Sequence 160, Ap
45	31	68.9	556	2	US-09-990-444-160	Sequence 160, Ap
46	31	68.9	556	2	US-09-997-333-160	Sequence 160, Ap
47	31	68.9	556	2	US-09-982-598-160	Sequence 15502, A
48	31	68.9	560	2	US-09-902-540-15502	Sequence 11325, A
49	31	68.9	574	2	US-09-949-016-11345	Sequence 114, Ap
50	30	66.7	62	1	US-08-464-531-114	Sequence 114, Ap
51	30	66.7	62	1	US-08-461-598-114	Sequence 114, Ap
52	30	66.7	62	2	US-08-332-137-114	Sequence 25319, A
53	30	66.7	67	2	US-09-248-796A-25319	Sequence 15528, A
54	30	66.7	106	2	US-09-248-796A-15528	Sequence 464, Ap
55	30	66.7	135	2	US-08-905-223-464	Sequence 42, Appl
56	30	66.7	146	2	US-09-893-737-42	Sequence 4920, Ap
57	30	66.7	197	2	US-09-107-433-4920	Sequence 5731, Ap
58	30	66.7	212	2	US-09-270-767-59436	Sequence 59436, A
59	30	66.7	234	2	US-09-270-767-58138	Sequence 58138, A
60	30	66.7	268	2	US-09-248-796A-19245	Sequence 19245, A
61	30	66.7	271	2	US-09-134-000C-6035	Sequence 6035, Ap
62	30	66.7	295	2	US-09-949-016-10678	Sequence 10678, A
63	30	66.7	305	2	US-09-902-540-15167	Sequence 15167, A
64	30	66.7	318	2	US-09-270-767-44026	Sequence 44026, A
65	30	66.7	340	2	US-10-104-047-3319	Sequence 3319, Ap
66	30	66.7	354	2	US-09-949-016-6727	Sequence 6727, Ap
67	30	66.7	399	2	US-09-134-000C-5712	Sequence 5712, Ap
68	30	66.7	431	2	US-09-198-452A-796	Sequence 796, Ap
69	30	66.7	470	2	US-09-949-016-11197	Sequence 11197, A
70	30	66.7	496	2	US-09-543-681A-6439	Sequence 6439, Ap
71	30	66.7	538	2	US-09-583-110-4848	Sequence 4848, Ap
72	30	66.7	543	2	US-09-438-185A-748	Sequence 748, Ap
73	30	66.7	601	2	US-09-902-540-11184	Sequence 11184, A
74	30	66.7	779	1	US-08-375-134-12	Sequence 12, Appl
75	30	66.7	779	4	PCT-US95-15263-12	Sequence 5, Appl1
76	30	66.7	833	2	US-09-886-319A-5	Sequence 1, Appl1
77	30	66.7	859	2	US-09-149-292-11	Sequence 11, Appl
78	30	66.7	87	2	US-09-394-272-11	Sequence 9229, Ap
79	30	66.7	87	2	US-09-902-540-9916	Sequence 9916, Ap
80	29	66.4	141	2	US-09-949-016-9229	Sequence 9229, Ap
81	29	66.4	184	2	US-09-248-796A-15949	Sequence 15949, A
82	29	66.4	205	2	US-09-270-767-36040	Sequence 36040, A
83	29	66.4	221	2	US-09-270-767-51257	Sequence 51257, A
84	29	66.4	221	2	US-09-134-000C-6200	Sequence 6200, Ap
85	29	66.4	234	2	US-09-482-918-53	Sequence 53, Appl
86	29	66.4	273	2	US-09-224-681-53	Sequence 53, Appl
87	29	66.4	273	2	US-09-635-251-53	Sequence 53, Appl
88	29	66.4	273	2	US-09-224-681-53	Sequence 53, Appl
89	29	66.4	273	2	US-09-224-681-53	Sequence 53, Appl
90	29	66.4	273	2	US-09-224-681-53	Sequence 53, Appl
91	29	66.4	273	2	US-09-224-681-53	Sequence 53, Appl
92	29	66.4	274	2	US-09-604-335A-53	Sequence 53, Appl
93	29	66.4	306	2	US-08-336-728A-53	Sequence 53, Appl
94	29	66.4	333	2	US-09-902-540-13132	Sequence 13132, A
95	29	66.4	333	2	US-09-562-737-4	Sequence 4, Appl1
96	29	66.4	333	2	US-08-311-731A-778	Sequence 378, Ap
97	29	66.4	355	2	US-09-902-540-15046	Sequence 15046, A
98	29	66.4	356	2	US-09-235-103-2	Sequence 2, Appl1
99	29	66.4	356	2	US-09-235-103-4	Sequence 4, Appl1
100	29	66.4	382	2	US-09-235-103-13	Sequence 13, Appl
	29	66.4	382	2	US-09-328-352-7438	Sequence 7438, Ap

101	29	64.4	537	2	US-09-489-039A-10655	Sequence 10655, A	174	28	62.2	350	2	US-09-124-807-23	Sequence 23, Appl
102	29	64.4	610	2	US-09-248-796A-17030	Sequence 17030, A	175	28	62.2	354	1	US-07-868-353A-12	Sequence 12, Appl
103	29	64.4	622	2	US-09-303-381-2	Sequence 2, Appl1	176	28	62.2	354	1	US-07-868-353A-15	Sequence 15, Appl
104	29	64.4	623	1	US-08-734-925-2	Sequence 2, Appl1	177	28	62.2	354	1	US-08-407-804-21	Sequence 21, Appl
105	29	64.4	708	2	US-09-792-024-123	Sequence 123, App	178	28	62.2	354	2	US-08-407-804-24	Sequence 24, Appl
106	29	64.4	731	2	US-09-248-796A-18075	Sequence 18075, A	179	28	62.2	354	1	US-09-124-807-21	Sequence 21, Appl
107	29	64.4	735	2	US-09-115-704-2	Sequence 2, Appl1	180	28	62.2	354	2	US-09-124-807-24	Sequence 24, Appl
108	29	64.4	735	2	US-09-780-115-2	Sequence 2, Appl1	181	28	62.2	355	1	US-08-440-845D-25	Sequence 25, Appl
109	29	64.4	909	2	US-10-163-214-2	Sequence 2, Appl1	182	28	62.2	375	2	US-09-134-000C-4981	Sequence 4981, Ap
110	29	64.4	1003	2	US-09-949-016-70627	Sequence 10627, A	183	28	62.2	379	2	US-09-540-236-3216	Sequence 3216, Ap
111	29	64.4	1827	2	US-09-443-780C-14	Sequence 14, Appl	184	28	62.2	380	2	US-09-328-352-4497	Sequence 4497, Ap
112	29	64.4	1827	2	US-09-079-723-179	Sequence 179, Appl	185	28	62.2	383	2	US-09-270-767-42808	Sequence 42808, A
113	29	64.4	2270	2	US-09-581-909-3	Sequence 3, Appl1	186	28	62.2	404	2	US-09-328-352-6361	Sequence 6361, Ap
114	28	62.2	9	2	US-08-159-339A-246	Sequence 246, App	187	28	62.2	429	2	US-09-194-468A-45	Sequence 45, Appl
115	28	62.2	9	2	US-08-153-339A-564	Sequence 564, App	188	28	62.2	437	2	US-09-538-092-876	Sequence 876, App
116	28	62.2	14	1	US-07-909-122-4	Sequence 4, Appl1	189	28	62.2	440	2	US-09-603-008A-268	Sequence 268, App
117	28	62.2	20	1	US-08-934-915-161	Sequence 161, App	190	28	62.2	462	2	US-08-486-099-117	Sequence 117, App
118	28	62.2	63	2	US-09-328-352-4804	Sequence 4804, App	191	28	62.2	462	2	US-08-360-107A-1127	Sequence 127, App
119	28	62.2	74	2	US-09-194-468A-19	Sequence 19, Appl	192	28	62.2	462	2	US-08-484-233B-117	Sequence 117, App
120	28	62.2	78	2	US-09-762-569-12	Sequence 12, Appl	193	28	62.2	462	2	US-08-919-597-117	Sequence 117, App
121	28	62.2	97	2	US-09-270-767-39202	Sequence 39202, A	194	28	62.2	462	2	US-08-475-668A-117	Sequence 117, App
122	28	62.2	97	2	US-09-270-767-54419	Sequence 54419, A	195	28	62.2	462	2	US-08-485-551A-117	Sequence 117, App
123	28	62.2	102	2	US-09-134-001C-5415	Sequence 5415, Ap	196	28	62.2	462	2	US-08-471-913A-117	Sequence 117, App
124	28	62.2	108	2	US-09-194-468A-20	Sequence 20, Appl	197	28	62.2	462	2	US-08-485-264A-117	Sequence 117, App
125	28	62.2	114	2	US-10-104-047-3819	Sequence 3819, Ap	198	28	62.2	462	2	US-08-474-349A-117	Sequence 117, App
126	28	62.2	123	2	US-09-270-767-39696	Sequence 39696, A	199	28	62.2	462	2	US-08-470-896-117	Sequence 117, App
127	28	62.2	123	2	US-09-270-767-54913	Sequence 54913, A	200	28	62.2	462	2	US-08-485-546A-117	Sequence 117, App
128	28	62.2	125	2	US-09-248-796A-18063	Sequence 18063, A	201	28	62.2	462	2	US-08-487-266A-117	Sequence 117, App
129	28	62.2	134	2	US-09-328-352-8236	Sequence 8236, Ap	202	28	62.2	462	2	US-08-484-741-117	Sequence 117, App
130	28	62.2	137	2	US-09-248-796A-18260	Sequence 18260, A	203	28	62.2	466	1	US-08-511-485-10	Sequence 10, Appl
131	28	62.2	170	2	US-09-248-796A-18532	Sequence 18532, A	204	28	62.2	466	2	US-09-212-971-10	Sequence 10, Appl
132	28	62.2	193	2	US-09-194-468A-18	Sequence 18, Appl	205	28	62.2	466	2	US-08-800-929A-10	Sequence 10, Appl
133	28	62.2	206	2	US-09-830-230A-294	Sequence 230, App	206	28	62.2	466	2	US-09-617-053A-10	Sequence 10, Appl
134	28	62.2	223	2	US-09-194-468A-17	Sequence 17, Appl	207	28	62.2	466	2	US-09-201-936-10	Sequence 10, Appl
135	28	62.2	242	2	US-09-949-016-9453	Sequence 9453, Ap	208	28	62.2	466	2	US-09-011-356-10	Sequence 10, Appl
136	28	62.2	249	2	US-09-270-767-41378	Sequence 41378, A	209	28	62.2	466	2	US-09-672-717-225	Sequence 225, Appl
137	28	62.2	249	2	US-09-270-767-56594	Sequence 56594, A	210	28	62.2	466	2	US-09-201-932-10	Sequence 10, Appl
138	28	62.2	250	2	US-09-830-230A-293	Sequence 293, App	211	28	62.2	466	2	US-09-270-767-43932	Sequence 43932, A
139	28	62.2	251	2	US-09-270-767-41495	Sequence 41495, A	212	28	62.2	556	1	US-08-505-377-1	Sequence 1, Appl1
140	28	62.2	269	2	US-09-311-021-56	Sequence 66, Appl	213	28	62.2	556	2	US-08-798-269-1	Sequence 1, Appl1
141	28	62.2	297	2	US-09-434-354-47	Sequence 47, Appl	214	28	62.2	556	2	US-09-055-210-8	Sequence 8, Appl1
142	28	62.2	297	2	US-09-709-785-47	Sequence 47, Appl	215	28	62.2	556	2	US-09-298-924-8	Sequence 8, Appl1
143	28	62.2	297	2	US-09-811-132-31	Sequence 31, Appl	216	28	62.2	561	2	US-09-328-352-6872	Sequence 6872, Ap
144	28	62.2	297	2	US-09-811-094-31	Sequence 31, Appl	217	28	62.2	568	2	US-09-911-909B-16	Sequence 16, Appl
145	28	62.2	297	2	US-09-185-904A-31	Sequence 31, Appl	218	28	62.2	569	2	US-09-248-796A-15541	Sequence 15541, A
146	28	62.2	297	2	US-09-809-827-91	Sequence 31, Appl	219	28	62.2	592	2	US-10-104-047-3371	Sequence 3371, A
147	28	62.2	297	2	US-09-809-889-91	Sequence 31, Appl	220	28	62.2	596	2	US-09-252-991A-22689	Sequence 22689, A
148	28	62.2	298	2	US-08-961-871-10	Sequence 10, Appl	221	28	62.2	614	4	PCT-US93-03236-21	Sequence 21, Appl
149	28	62.2	298	2	US-09-434-354-48	Sequence 48, Appl	222	28	62.2	616	2	US-08-637-670-28	Sequence 28, Appl
150	28	62.2	298	2	US-09-434-354-49	Sequence 48, Appl	223	28	62.2	631	2	US-08-448-489-17	Sequence 17, Appl
151	28	62.2	298	2	US-09-709-785-48	Sequence 48, Appl	224	28	62.2	631	2	US-09-689-730-17	Sequence 17, Appl
152	28	62.2	298	2	US-09-709-785-49	Sequence 48, Appl	225	28	62.2	631	2	US-09-689-730-17	Sequence 17, Appl
153	28	62.2	298	2	US-09-811-132-32	Sequence 32, Appl	226	28	62.2	660	2	US-09-521-220-18	Sequence 18, Appl
154	28	62.2	298	2	US-09-811-132-33	Sequence 32, Appl	227	28	62.2	660	2	US-09-391-104-19	Sequence 19, Appl
155	28	62.2	298	2	US-09-811-094-32	Sequence 32, Appl	228	28	62.2	660	2	US-09-817-254-89	Sequence 89, Appl
156	28	62.2	298	2	US-09-811-094-33	Sequence 32, Appl	229	28	62.2	660	2	US-09-949-016-6512	Sequence 6512, Ap
157	28	62.2	298	2	US-09-185-904A-32	Sequence 32, Appl	230	28	62.2	660	2	US-09-949-016-7937	Sequence 7937, Ap
158	28	62.2	298	2	US-09-185-904A-33	Sequence 32, Appl	231	28	62.2	660	2	US-10-153-185-14	Sequence 14, Appl
159	28	62.2	298	2	US-09-809-827-32	Sequence 32, Appl	232	28	62.2	710	2	US-09-079-812B-2	Sequence 2, Appl1
160	28	62.2	298	2	US-09-809-827-33	Sequence 32, Appl	233	28	62.2	746	2	US-09-710-279-652	Sequence 652, App
161	28	62.2	298	2	US-09-809-889-32	Sequence 32, Appl	234	28	62.2	759	2	US-10-104-047-2770	Sequence 2770, Ap
162	28	62.2	298	2	US-09-809-889-33	Sequence 32, Appl	235	28	62.2	765	2	US-09-762-569-10	Sequence 10, Appl
163	28	62.2	304	2	US-09-949-016-11339	Sequence 11339, A	236	28	62.2	778	2	US-09-134-001C-3868	Sequence 3868, Ap
164	28	62.2	314	2	US-09-248-796A-19386	Sequence 19386, A	237	28	62.2	849	2	US-09-157-257-4	Sequence 4, Appl1
165	28	62.2	333	2	US-09-230-637-30	Sequence 30, Appl	238	28	62.2	930	2	US-09-198-452A-470	Sequence 470, App
166	28	62.2	333	2	US-09-453-195A-2	Sequence 2, Appl1	239	28	62.2	938	2	US-09-438-185A-448	Sequence 448, App
167	28	62.2	333	2	US-09-562-737-1	Sequence 1, Appl1	240	28	62.2	966	2	US-09-248-796A-15358	Sequence 15358, A
168	28	62.2	333	2	US-09-562-737-10	Sequence 10, Appl1	241	28	62.2	1060	2	US-09-248-796A-18062	Sequence 18062, A
169	28	62.2	333	2	US-09-517-974-2	Sequence 2, Appl1	242	28	62.2	1069	2	US-09-902-540-11566	Sequence 11566, A
170	28	62.2	333	2	US-09-664-958-1	Sequence 1, Appl1	243	28	62.2	1088	1	US-08-742-026-2	Sequence 2, Appl1
171	28	62.2	333	2	US-09-664-958-14	Sequence 14, Appl	244	28	62.2	1088	1	US-08-742-026-23	Sequence 23, Appl1
172	28	62.2	350	1	US-07-868-353A-14	Sequence 14, Appl	245	28	62.2	1242	2	US-09-540-236-2542	Sequence 2522, Ap
173	28	62.2	350	1	US-08-407-804-23	Sequence 23, Appl	246	28	62.2	1268	1	US-07-727-814B-2	Sequence 2, Appl1

247	28	62.2	1288	1	US-08-258-614-2	Sequence 2, Appl1	320	27	60.0	274	2	US-09-485-639D-2	Sequence 2, Appl1
248	28	62.2	1964	1	US-08-790-912-3	Sequence 3, Appl1	321	27	60.0	274	2	US-09-133-352B-2	Sequence 2, Appl1
249	28	62.2	1965	2	US-09-583-110-3829	Sequence 3829, Ap	322	27	60.0	276	2	US-09-248-796A-24171	Sequence 24171, A
250	28	62.2	1972	2	US-09-107-413-3251	Sequence 3251, Ap	323	27	60.0	288	2	US-10-144-929-141	Sequence 141, App
251	28	62.2	2052	1	US-08-790-912-2	Sequence 2, Appl1	324	27	60.0	289	2	US-09-653-274-11	Sequence 11, Appl
252	28	62.2	2777	2	US-09-543-681A-6124	Sequence 6124, Ap	325	27	60.0	289	2	US-10-461-791-11	Sequence 11, Appl
253	27.5	61.1	2994	2	US-09-134-000C-4495	Sequence 4495, Ap	326	27	60.0	295	2	US-09-248-796A-14635	Sequence 14635, A
254	32	60.0	32	2	US-09-638-524A-3	Sequence 3, Appl1	327	27	60.0	306	2	US-09-674-529B-2	Sequence 2, Appl1
255	27	60.0	61	2	US-09-107-532A-5956	Sequence 5956, Ap	328	27	60.0	306	2	US-09-674-529B-4	Sequence 4, Appl1
256	27	60.0	61	2	US-09-583-110-4730	Sequence 4730, Ap	329	27	60.0	306	2	US-09-270-767-43622	Sequence 43622, A
257	27	60.0	62	1	US-08-464-531-113	Sequence 113, App	330	27	60.0	309	2	US-09-674-529B-12	Sequence 12, Appl1
258	27	60.0	62	1	US-08-461-598-113	Sequence 113, App	331	27	60.0	311	2	US-09-198-452A-331	Sequence 331, App
259	27	60.0	62	2	US-08-322-137-113	Sequence 113, App	332	27	60.0	311	2	US-09-438-185A-316	Sequence 316, App
260	27	60.0	66	2	US-09-543-681A-4914	Sequence 4914, Ap	333	27	60.0	315	2	US-09-674-529B-8	Sequence 8, Appl1
261	27	60.0	70	2	US-09-270-767-40647	Sequence 40647, A	334	27	60.0	315	2	US-09-487-558B-252	Sequence 252, App
262	27	60.0	70	2	US-09-270-767-55863	Sequence 55863, A	335	27	60.0	318	2	US-09-100-664A-10	Sequence 10, Appl1
263	27	60.0	76	2	US-09-205-258-787	Sequence 787, App	336	27	60.0	319	2	US-09-335-983-10	Sequence 10, Appl1
264	27	60.0	76	2	US-09-489-039A-9194	Sequence 9194, Ap	337	27	60.0	319	2	US-09-553-867A-10	Sequence 10, Appl1
265	27	60.0	76	2	US-10-004-860-787	Sequence 787, App	338	27	60.0	319	2	US-09-553-867A-10	Sequence 10, Appl1
266	27	60.0	91	2	US-09-270-767-56883	Sequence 56883, A	339	27	60.0	327	2	US-09-294-894-29	Sequence 29, Appl1
267	27	60.0	91	2	US-09-543-681A-4361	Sequence 4361, Ap	340	27	60.0	328	2	US-09-734-237B-50	Sequence 50, Appl1
268	27	60.0	103	2	US-09-248-796A-26113	Sequence 26113, A	341	27	60.0	328	2	US-09-734-237B-52	Sequence 52, Appl1
269	27	60.0	103	2	US-09-248-796A-23143	Sequence 23143, A	342	27	60.0	345	2	US-09-270-767-41645	Sequence 41645, A
270	27	60.0	111	2	US-09-144-928-233	Sequence 233, App	343	27	60.0	359	1	US-09-092-770-6	Sequence 6, Appl1
271	27	60.0	120	2	US-10-144-928-233	Sequence 233, App	344	27	60.0	359	2	US-09-222-851-6	Sequence 6, Appl1
272	27	60.0	122	2	US-09-270-767-59603	Sequence 59603, A	345	27	60.0	359	2	US-10-265-062-6	Sequence 3, Appl1
273	27	60.0	126	2	US-09-710-279-180	Sequence 180, App	346	27	60.0	361	2	US-09-198-484-3	Sequence 66, Appl1
274	27	60.0	128	2	US-09-248-796A-27972	Sequence 27972, A	347	27	60.0	365	2	US-09-828-995B-66	Sequence 66, Appl1
275	27	60.0	130	2	US-09-198-452A-528	Sequence 528, App	348	27	60.0	370	2	US-09-252-991A-21152	Sequence 21152, A
276	27	60.0	132	2	US-09-270-767-33560	Sequence 33560, A	349	27	60.0	372	1	US-08-837-953-9	Sequence 9, Appl1
277	27	60.0	132	2	US-09-270-767-48777	Sequence 48777, A	350	27	60.0	386	2	US-09-828-995B-61	Sequence 61, Appl1
278	27	60.0	143	2	US-09-248-796A-16525	Sequence 16525, A	351	27	60.0	388	2	US-09-308-003-16	Sequence 16, Appl1
279	27	60.0	146	2	US-09-732-210-97	Sequence 97, Appl1	352	27	60.0	395	2	US-09-949-070-4	Sequence 11560, A
280	27	60.0	146	2	US-09-732-210-301	Sequence 301, Appl	353	27	60.0	403	1	US-09-092-770-4	Sequence 4, Appl1
281	27	60.0	151	2	US-09-543-681A-5556	Sequence 5556, Ap	354	27	60.0	403	2	US-09-223-851-4	Sequence 4, Appl1
282	27	60.0	153	2	US-09-732-210-278	Sequence 278, App	355	27	60.0	403	2	US-09-223-851-4	Sequence 4, Appl1
283	27	60.0	156	2	US-09-770-767-48249	Sequence 48249, A	356	27	60.0	404	1	US-10-265-062-4	Sequence 3, Appl1
284	27	60.0	157	2	US-09-270-767-33032	Sequence 33032, A	357	27	60.0	404	2	US-09-092-770-3	Sequence 3, Appl1
285	27	60.0	162	2	US-09-489-847-160	Sequence 160, App	358	27	60.0	404	2	US-09-222-851-3	Sequence 3, Appl1
286	27	60.0	165	2	US-09-552-931A-29666	Sequence 29666, A	359	27	60.0	405	2	US-10-265-062-3	Sequence 3, Appl1
287	27	60.0	168	2	US-09-107-592A-6863	Sequence 6863, Ap	360	27	60.0	405	2	US-09-049-016-8235	Sequence 8235, Ap
288	27	60.0	171	2	US-09-949-016-11245	Sequence 11245, A	361	27	60.0	405	2	US-10-206-576-4	Sequence 4, Appl1
289	27	60.0	174	2	US-09-902-540-15769	Sequence 15769, A	362	27	60.0	407	2	US-09-949-016-1184	Sequence 1184, A
290	27	60.0	182	2	US-09-270-767-59000	Sequence 59000, A	363	27	60.0	414	2	US-09-647-540A-6	Sequence 6, Appl1
291	27	60.0	183	2	US-09-107-532A-7197	Sequence 7197, Ap	364	27	60.0	414	2	US-10-119-650-6	Sequence 6, Appl1
292	27	60.0	194	2	US-08-671-548C-26	Sequence 26, Appl	365	27	60.0	414	2	US-10-119-650-6	Sequence 6, Appl1
293	27	60.0	194	2	US-08-284-667A-26	Sequence 26, Appl	366	27	60.0	418	2	US-09-828-313-31	Sequence 31, Appl
294	27	60.0	205	1	US-08-133-979A-4	Sequence 4, Appl1	367	27	60.0	418	2	US-09-949-016-6933	Sequence 6933, Ap
295	27	60.0	205	1	US-08-436-890-4	Sequence 4, Appl1	368	27	60.0	420	2	US-09-248-796A-23880	Sequence 23880, A
296	27	60.0	205	1	US-08-451-213-4	Sequence 4, Appl1	369	27	60.0	421	2	US-09-543-681A-7076	Sequence 7076, Ap
297	27	60.0	205	2	US-09-485-639D-10	Sequence 10, Appl	370	27	60.0	426	2	US-09-071-035-2	Sequence 2, Appl1
298	27	60.0	207	2	US-09-489-847-320	Sequence 320, App	371	27	60.0	426	2	US-09-102-576-2	Sequence 2, Appl1
299	27	60.0	207	2	US-09-438-185A-832	Sequence 832, App	372	27	60.0	426	2	US-09-583-110-3763	Sequence 3763, Ap
300	27	60.0	212	1	US-08-158-353-4	Sequence 4, Appl1	373	27	60.0	442	2	US-09-107-445A-7	Sequence 7, Appl1
301	27	60.0	212	2	US-09-196-293-11	Sequence 11, Appl	374	27	60.0	442	2	US-09-134-000C-5071	Sequence 5071, Ap
302	27	60.0	212	2	US-08-209-603B-11	Sequence 11, Appl	375	27	60.0	447	2	US-09-134-000C-5466	Sequence 5466, Ap
303	27	60.0	212	2	US-08-235-836C-34	Sequence 34, Appl	376	27	60.0	459	2	US-09-540-236-2942	Sequence 2942, Ap
304	27	60.0	212	2	US-09-711-546-11	Sequence 11, Appl	377	27	60.0	463	2	US-09-949-016-11668	Sequence 11668, A
305	27	60.0	212	2	US-09-974-992B-7	Sequence 7, Appl1	378	27	60.0	472	2	US-09-949-016-8180	Sequence 8180, Ap
306	27	60.0	212	2	US-10-289-795-11	Sequence 11, Appl	379	27	60.0	484	2	US-09-328-352-7784	Sequence 7784, Ap
307	27	60.0	216	2	US-10-104-047-3064	Sequence 3064, Ap	380	27	60.0	484	2	US-09-828-313-32	Sequence 32, Appl1
308	27	60.0	224	2	US-09-198-452A-892	Sequence 892, App	381	27	60.0	492	2	US-09-949-016-10447	Sequence 10447, A
309	27	60.0	224	2	US-09-543-681A-6654	Sequence 6654, Ap	382	27	60.0	492	2	US-09-999-833A-7	Sequence 7, Appl1
310	27	60.0	240	2	US-09-248-796A-17703	Sequence 17703, A	383	27	60.0	492	2	US-10-020-445A-7	Sequence 16588, A
311	27	60.0	254	2	US-09-485-639D-9	Sequence 9, Appl1	384	27	60.0	494	2	US-09-902-540-16588	Sequence 4, Appl1
312	27	60.0	254	2	US-09-133-352B-9	Sequence 9, Appl1	385	27	60.0	495	2	US-09-198-484-4	Sequence 8, Appl1
313	27	60.0	255	2	US-09-543-681A-7716	Sequence 7716, Ap	386	27	60.0	501	2	US-09-157-257-8	Sequence 4, Appl1
314	27	60.0	271	2	US-09-828-995B-58	Sequence 58, Appl	387	27	60.0	505	2	US-08-627-907A-4	Sequence 4, Appl1
315	27	60.0	271	2	US-08-482-918-52	Sequence 52, Appl	388	27	60.0	510	2	US-09-248-796A-17202	Sequence 17202, A
316	27	60.0	271	2	US-09-224-681-52	Sequence 52, Appl	389	27	60.0	515	2	US-09-248-796A-18264	Sequence 18264, A
317	27	60.0	271	2	US-09-635-251-52	Sequence 52, Appl	390	27	60.0	539	2	US-09-157-257-6	Sequence 6, Appl1
318	27	60.0	271	2	US-09-224-683-52	Sequence 52, Appl	391	27	60.0	553	2	US-09-248-796A-20078	Sequence 20078, A
319	27	60.0	274	2	US-08-336-728A-52	Sequence 52, Appl	392	27	60.0				

393	27	60.0	559	2	US-09-252-991A-32216	Sequence 32216, A	466	26	57.8	179	2	US-09-107-532A-3901	Sequence 3901, Ap
394	27	60.0	570	2	US-09-949-016-6071	Sequence 6071, Ap	467	26	57.8	181	2	US-09-029-213B-22	Sequence 22, Appl
395	27	60.0	575	2	US-09-134-000C-4457	Sequence 4457, Ap	468	26	57.8	183	2	US-09-543-681A-6444	Sequence 6444, Ap
396	27	60.0	593	2	US-09-949-016-10192	Sequence 10192, A	469	26	57.8	184	2	US-09-489-039A-12490	Sequence 12490, A
397	27	60.0	611	2	US-09-370-807-2	Sequence 2, Appl1	470	26	57.8	184	2	US-09-540-236-3687	Sequence 3687, Ap
398	27	60.0	611	2	US-09-921-259-2	Sequence 2, Appl1	471	26	57.8	186	1	US-08-565-386-7	Sequence 7, Appl1
399	27	60.0	616	2	US-08-637-670-26	Sequence 26, Appl1	472	26	57.8	193	2	US-09-194-468A-24	Sequence 24, Appl
400	27	60.0	617	2	US-09-538-092-1349	Sequence 1349, Ap	473	26	57.8	195	2	US-09-198-452A-965	Sequence 965, App
401	27	60.0	634	2	US-09-248-796A-17852	Sequence 17852, A	474	26	57.8	197	2	US-09-134-000C-4925	Sequence 4925, Ap
402	27	60.0	638	2	US-09-902-540-14466	Sequence 14466, A	475	26	57.8	201	2	US-09-134-001C-5559	Sequence 5559, Ap
403	27	60.0	640	2	US-09-489-039A-1416	Sequence 1416, A	476	26	57.8	204	2	US-09-710-279-1544	Sequence 1544, Ap
404	27	60.0	696	2	US-09-270-767-44179	Sequence 44179, A	477	26	57.8	207	2	US-09-252-991A-24593	Sequence 24593, A
405	27	60.0	709	2	US-09-826-509-589	Sequence 589, App	478	26	57.8	207	2	US-08-811-519-19	Sequence 19, Appl
406	27	60.0	742	2	US-09-500-123-12	Sequence 12, Appl	479	26	57.8	212	2	US-09-270-767-32938	Sequence 32938, A
407	27	60.0	749	2	US-09-913-955A-1	Sequence 1, Appl1	480	26	57.8	220	2	US-09-915-789A-23	Sequence 23, Appl
408	27	60.0	780	1	US-09-018-760-4	Sequence 4, Appl1	481	26	57.8	228	2	US-08-513-974B-313	Sequence 313, App
409	27	60.0	797	2	US-09-134-000C-4997	Sequence 4997, Ap	482	26	57.8	228	2	US-08-513-974B-362	Sequence 362, App
410	27	60.0	811	2	US-09-500-123-9	Sequence 9, Appl1	483	26	57.8	228	2	US-08-776-971-130	Sequence 130, Appl
411	27	60.0	815	2	US-09-479-467A-6	Sequence 6, Appl1	484	26	57.8	228	2	US-09-194-468A-23	Sequence 23, App
412	27	60.0	815	2	US-09-655-160-6	Sequence 6, Appl1	485	26	57.8	228	2	US-09-576-390-130	Sequence 130, App
413	27	60.0	838	2	US-09-315-794-52	Sequence 52, Appl1	486	26	57.8	228	2	US-09-716-147-130	Sequence 130, App
414	27	60.0	838	2	US-09-389-341-55	Sequence 52, Appl1	487	26	57.8	231	2	US-09-248-796A-20475	Sequence 20475, A
415	27	60.0	838	2	US-09-564-805-229	Sequence 229, App	488	26	57.8	234	2	US-09-107-532A-6523	Sequence 6523, Ap
416	27	60.0	843	2	US-09-235-451-25	Sequence 25, Appl1	489	26	57.8	234	2	US-09-364-425B-49	Sequence 49, Appl1
417	27	60.0	843	2	US-09-978-303-25	Sequence 25, Appl1	490	26	57.8	236	2	US-09-239-867-4	Sequence 4, Appl1
418	27	60.0	871	2	US-09-500-123-7	Sequence 7, Appl1	491	26	57.8	236	2	US-10-024-433-4	Sequence 4, Appl1
419	27	60.0	872	2	US-09-252-991A-31572	Sequence 31572, A	492	26	57.8	237	2	US-09-134-001C-3057	Sequence 3057, Ap
420	27	60.0	886	2	US-09-886-319A-6	Sequence 6, Appl1	493	26	57.8	240	2	US-09-107-532A-4655	Sequence 4655, Ap
421	27	60.0	898	2	US-09-583-110-3327	Sequence 3327, Ap	494	26	57.8	244	2	US-09-107-532A-3889	Sequence 3889, Ap
422	27	60.0	902	2	US-10-043-418-4	Sequence 4, Appl1	495	26	57.8	245	2	US-09-645-069-2	Sequence 2, Appl1
423	27	60.0	904	2	US-09-198-484-2	Sequence 2, Appl1	496	26	57.8	245	2	US-09-644-934-2	Sequence 11, Appl1
424	27	60.0	904	2	US-09-949-002-352	Sequence 352, App	497	26	57.8	253	1	US-08-685-992-11	Sequence 11, Appl1
425	27	60.0	910	2	US-09-949-002-483	Sequence 483, App	498	26	57.8	253	1	US-09-144-925-11	Sequence 11, Appl1
426	27	60.0	916	2	US-09-107-433-2987	Sequence 2987, Ap	499	26	57.8	253	2	US-09-107-532A-5072	Sequence 5072, Ap
427	27	60.0	960	2	US-09-538-092-326	Sequence 326, App	500	26	57.8	253	2	US-09-489-039A-9280	Sequence 9280, Ap
428	27	60.0	961	2	US-09-540-236-2492	Sequence 2492, Ap	501	26	57.8	253	2	US-09-270-767-42144	Sequence 42144, A
429	27	60.0	1031	2	US-09-585-173B-40	Sequence 40, Appl	502	26	57.8	255	2	US-09-543-681A-4771	Sequence 4771, Ap
430	27	60.0	1051	2	US-09-252-991A-16999	Sequence 16999, A	503	26	57.8	255	2	US-09-710-279-914	Sequence 914, App
431	27	60.0	1185	2	US-09-585-173B-36	Sequence 36, Appl	504	26	57.8	255	2	US-09-710-279-2620	Sequence 2620, Ap
432	27	60.0	1185	2	US-09-252-991A-18328	Sequence 18328, A	505	26	57.8	255	2	US-09-605-703B-244	Sequence 244, App
433	27	60.0	1185	2	US-09-309-572-7	Sequence 7, Appl1	506	26	57.8	260	2	US-09-134-001C-4872	Sequence 4872, Ap
434	27	60.0	2210	2	US-09-718-096-7	Sequence 58, Appl	507	26	57.8	265	2	US-09-270-767-46285	Sequence 46285, A
435	26	57.8	8	1	PCT-US94-01319-58	Sequence 58, Appl	508	26	57.8	263	2	US-09-248-796A-14765	Sequence 14765, A
436	26	57.8	8	1	PCT-US94-01319-58	Sequence 58, Appl	509	26	57.8	263	2	US-09-605-703B-242	Sequence 242, App
437	26	57.8	26	4	US-08-620-151-83	Sequence 83, Appl1	510	26	57.8	271	2	US-09-107-532A-5071	Sequence 5071, App
438	26	57.8	29	1	US-08-968-542C-33	Sequence 33, Appl1	511	26	57.8	274	2	US-08-482-918-51	Sequence 51, Appl1
439	26	57.8	29	2	US-09-554-467A-33	Sequence 33, Appl1	512	26	57.8	274	2	US-09-224-681-51	Sequence 51, Appl1
440	26	57.8	39	2	US-09-238-303-13	Sequence 13, Appl1	513	26	57.8	274	2	US-08-336-728A-51	Sequence 51, Appl1
441	26	57.8	39	2	US-09-946-239-13	Sequence 13, Appl1	514	26	57.8	274	2	US-09-635-251-51	Sequence 51, Appl1
442	26	57.8	59	2	US-09-482-273-141	Sequence 141, App	515	26	57.8	274	2	US-09-224-683-51	Sequence 51, Appl1
443	26	57.8	63	2	US-09-134-001C-3912	Sequence 3912, Ap	516	26	57.8	274	2	US-09-604-825A-51	Sequence 51, Appl1
444	26	57.8	64	2	US-09-513-999C-6093	Sequence 6093, Ap	517	26	57.8	278	2	US-09-964-899-39	Sequence 39, Appl1
445	26	57.8	65	2	US-09-621-976-4513	Sequence 4513, Ap	518	26	57.8	281	2	US-09-440-236-2349	Sequence 2349, Ap
446	26	57.8	69	2	US-09-134-001C-2932	Sequence 2932, Ap	519	26	57.8	282	2	US-10-037-417-80	Sequence 80, Appl1
447	26	57.8	72	2	US-09-248-796A-24647	Sequence 24647, A	520	26	57.8	286	2	US-09-248-796A-14260	Sequence 14260, A
448	26	57.8	74	2	US-09-194-468A-25	Sequence 25, Appl1	521	26	57.8	290	2	US-09-910-174B-8	Sequence 8, Appl1
449	26	57.8	79	2	US-09-270-767-46930	Sequence 46930, A	522	26	57.8	290	2	US-09-910-174B-32	Sequence 32, Appl1
450	26	57.8	81	2	US-09-543-681A-6312	Sequence 6312, Ap	523	26	57.8	290	2	US-09-920-461-8	Sequence 8, Appl1
451	26	57.8	106	2	US-09-270-767-34726	Sequence 34726, A	524	26	57.8	290	2	US-09-451-291-1	Sequence 1, Appl1
452	26	57.8	106	2	US-09-270-767-49943	Sequence 49943, A	525	26	57.8	290	2	US-09-451-291-3	Sequence 3, Appl1
453	26	57.8	108	2	US-09-194-468A-26	Sequence 26, Appl1	526	26	57.8	290	2	US-09-645-069-4	Sequence 4, Appl1
454	26	57.8	116	2	US-09-562-737-125	Sequence 125, App	527	26	57.8	290	2	US-09-645-069-23	Sequence 23, Appl1
455	26	57.8	119	2	US-09-270-767-11364	Sequence 11364, A	528	26	57.8	290	2	US-09-915-789A-17	Sequence 17, Appl1
456	26	57.8	119	2	US-09-270-767-56580	Sequence 56580, A	529	26	57.8	290	2	US-09-644-934-4	Sequence 4, Appl1
457	26	57.8	131	2	US-09-270-767-49738	Sequence 49738, A	530	26	57.8	290	2	US-09-134-001C-5277	Sequence 5277, Ap
458	26	57.8	131	2	US-09-270-767-49738	Sequence 49738, A	531	26	57.8	293	2	US-10-163-214-10	Sequence 10, Appl1
459	26	57.8	145	2	US-09-513-999C-5725	Sequence 5725, Ap	532	26	57.8	293	2	US-09-107-532A-5499	Sequence 5499, Ap
460	26	57.8	148	2	US-09-605-703B-1934	Sequence 1934, Ap	533	26	57.8	301	1	US-08-118-270-72	Sequence 72, Appl1
461	26	57.8	153	2	US-09-107-532A-5436	Sequence 5436, Ap	534	26	57.8	301	4	PCT-US93-08528-72	Sequence 12108, A
462	26	57.8	162	2	US-09-248-796A-17986	Sequence 17986, A	535	26	57.8	313	2	US-09-489-039A-12108	Sequence 18773, A
463	26	57.8	172	2	US-09-270-767-61856	Sequence 61856, A	536	26	57.8	318	2	US-09-248-796A-18773	Sequence 18773, A
464	26	57.8	179	1	US-08-531-525-38	Sequence 38, Appl1	537	26	57.8	322	2	US-09-107-532A-5520	Sequence 5520, Ap
465	26	57.8	179	1	US-08-718-270A-38	Sequence 38, Appl1	538	26	57.8	322	2	US-09-107-532A-3901	Sequence 3901, Ap



539	26	57.8	323	2	US-09-949-016-7924	Sequence 7924, Ap	612	26	57.8	445	2	US-09-065-027-2	Sequence 2, Appli
540	26	57.8	328	2	US-09-583-110-4999	Sequence 4999, Ap	613	26	57.8	445	2	US-09-065-027-4	Sequence 4, Appli
541	26	57.8	333	2	US-09-710-279-1960	Sequence 1960, Ap	614	26	57.8	445	2	US-09-065-027-6	Sequence 6, Appli
542	26	57.8	343	2	US-09-107-433-3112	Sequence 3112, Ap	615	26	57.8	445	2	US-09-708-332-13	Sequence 13, Appl
543	26	57.8	349	1	US-08-465-971B-2	Sequence 2, Appli	616	26	57.8	445	2	US-09-826-509-533	Sequence 533, App
544	26	57.8	349	2	US-09-170-496D-44	Sequence 44, Appli	617	26	57.8	451	2	US-09-252-991A-21506	Sequence 21506, A
545	26	57.8	349	2	US-09-170-496D-188	Sequence 188, App	618	26	57.8	455	1	US-08-349-025-4	Sequence 4, Appli
546	26	57.8	349	2	US-09-364-425B-15	Sequence 15, Appli	619	26	57.8	455	1	US-08-566-096A-4	Sequence 4, Appli
547	26	57.8	349	2	US-09-364-425B-51	Sequence 51, Appli	620	26	57.8	455	1	US-08-668-650B-4	Sequence 4, Appli
548	26	57.8	351	2	US-09-270-767-43939	Sequence 43939, A	621	26	57.8	455	2	US-09-200-673-4	Sequence 4, Appli
549	26	57.8	351	2	US-09-252-991A-1778	Sequence 31718, A	622	26	57.8	455	2	US-09-194-895-4	Sequence 7, Appli
550	26	57.8	358	1	US-08-465-971B-3	Sequence 3, Appli	623	26	57.8	455	2	US-09-447-846-7	Sequence 4, Appli
551	26	57.8	358	2	US-09-540-236-3099	Sequence 3099, Ap	624	26	57.8	455	2	US-09-962-646-4	Sequence 7, Appli
552	26	57.8	361	2	US-09-248-568-2	Sequence 2, Appli	625	26	57.8	455	2	US-10-410-648-7	Sequence 2, Appli
553	26	57.8	361	2	US-09-364-425B-19	Sequence 19, Appli	626	26	57.8	455	2	US-08-349-025-2	Sequence 2, Appli
554	26	57.8	361	2	US-09-364-425B-50	Sequence 50, Appli	627	26	57.8	456	1	US-08-566-096A-2	Sequence 2, Appli
555	26	57.8	361	2	US-09-854-122-43	Sequence 43, Appli	628	26	57.8	456	1	US-08-668-650B-2	Sequence 2, Appli
556	26	57.8	361	2	US-09-949-016-11064	Sequence 11064, A	629	26	57.8	456	1	US-08-668-650B-14	Sequence 14, Appli
557	26	57.8	362	2	US-09-854-122-42	Sequence 42, Appli	630	26	57.8	456	1	US-09-200-673-2	Sequence 2, Appli
558	26	57.8	364	2	US-08-650-275-4	Sequence 4, Appli	631	26	57.8	456	2	US-09-194-895-2	Sequence 2, Appli
559	26	57.8	364	2	US-09-181-318-4	Sequence 4, Appli	632	26	57.8	456	2	US-09-194-895-14	Sequence 14, Appli
560	26	57.8	364	2	US-09-807-258-31	Sequence 31, Appli	633	26	57.8	456	2	US-09-447-907-2	Sequence 14, Appli
561	26	57.8	369	2	US-09-134-001C-5149	Sequence 5149, Ap	634	26	57.8	456	2	US-09-447-907-14	Sequence 2, Appli
562	26	57.8	376	2	US-09-107-532A-4779	Sequence 4779, Ap	635	26	57.8	456	2	US-09-962-646-2	Sequence 2, Appli
563	26	57.8	376	1	US-08-594-031-100	Sequence 100, App	636	26	57.8	456	2	PCT-US95-15446-2	Sequence 2, Appli
564	26	57.8	376	1	US-08-594-031-102	Sequence 102, App	637	26	57.8	456	4	PCT-US95-15446-4	Sequence 4, Appli
565	26	57.8	376	5	US-09-985-799-100	Sequence 102, App	638	26	57.8	456	4	US-09-328-332-7117	Sequence 6717, Ap
566	26	57.8	376	5	US-09-985-799-102	Sequence 102, App	639	26	57.8	465	2	US-09-065-027-8	Sequence 8, Appli
567	26	57.8	376	5	US-09-977-371-100	Sequence 100, App	640	26	57.8	466	2	US-09-248-796A-20553	Sequence 20553, A
568	26	57.8	376	5	US-09-977-371-102	Sequence 102, App	641	26	57.8	477	2	US-09-248-796A-17800	Sequence 17800, A
569	26	57.8	381	2	US-09-248-796A-19481	Sequence 19481, A	642	26	57.8	482	2	US-09-693-746-20	Sequence 20, Appl
570	26	57.8	382	1	US-08-415-818-7	Sequence 7, Appli	643	26	57.8	483	2	US-09-252-991A-29392	Sequence 29392, A
571	26	57.8	382	1	US-08-894-236-7	Sequence 7, Appli	644	26	57.8	487	2	US-09-511-485-4	Sequence 4, Appli
572	26	57.8	382	1	US-08-555-268A-13	Sequence 13, Appli	645	26	57.8	497	1	US-09-212-971-4	Sequence 4, Appli
573	26	57.8	382	2	US-08-555-268A-14	Sequence 14, Appli	646	26	57.8	497	2	US-08-800-929A-4	Sequence 4, Appli
574	26	57.8	382	2	US-09-430-775-35	Sequence 35, Appli	647	26	57.8	497	2	US-08-617-053A-4	Sequence 4, Appli
575	26	57.8	382	2	US-09-430-775-36	Sequence 36, Appli	648	26	57.8	497	2	US-08-657-759-2	Sequence 2, Appli
576	26	57.8	382	4	PCT-US96-01444-7	Sequence 7, Appli	649	26	57.8	497	2	US-08-657-759-2	Sequence 2, Appli
577	26	57.8	390	2	US-09-328-352-7807	Sequence 7807, Ap	650	26	57.8	497	2	US-09-201-932-4	Sequence 4, Appli
578	26	57.8	390	2	US-09-991-181-205	Sequence 205, App	651	26	57.8	497	2	US-09-672-717-219	Sequence 219, App
579	26	57.8	392	2	US-09-990-444-205	Sequence 205, App	652	26	57.8	497	2	US-09-672-717-219	Sequence 219, App
580	26	57.8	392	2	US-09-997-333-205	Sequence 205, App	653	26	57.8	497	2	US-09-672-717-219	Sequence 219, App
581	26	57.8	392	2	US-09-992-598-205	Sequence 205, App	654	26	57.8	497	2	US-09-672-717-219	Sequence 219, App
582	26	57.8	393	2	US-09-482-273-154	Sequence 154, Appl	655	26	57.8	501	2	US-09-465-519-2	Sequence 2, Appli
583	26	57.8	393	2	US-09-538-092-34	Sequence 34, Appl	656	26	57.8	501	2	US-09-465-519-2	Sequence 2, Appli
584	26	57.8	394	2	US-10-013-846-17	Sequence 17, Appl	657	26	57.8	501	2	US-09-971-611-4	Sequence 4, Appli
585	26	57.8	394	2	US-10-013-846-17	Sequence 17, Appl	658	26	57.8	501	2	US-10-136-272-2	Sequence 2, Appli
586	26	57.8	397	2	US-09-489-039A-13038	Sequence 13038, A	659	26	57.8	501	2	US-10-136-272-4	Sequence 4, Appli
587	26	57.8	408	2	US-09-902-540-11436	Sequence 11436, A	660	26	57.8	505	2	US-09-627-216A-12	Sequence 12, Appl
588	26	57.8	413	2	US-09-543-681A-6035	Sequence 6035, Ap	661	26	57.8	505	2	US-09-126-420A-22	Sequence 22, Appl
589	26	57.8	418	2	US-09-328-352-8089	Sequence 8089, Ap	662	26	57.8	505	2	US-09-765-873A-12	Sequence 12, Appli
590	26	57.8	422	2	US-09-949-016-8167	Sequence 8167, Ap	663	26	57.8	509	1	US-08-890-980-2	Sequence 2, Appli
591	26	57.8	429	2	US-09-543-681A-77552	Sequence 7252, Ap	664	26	57.8	509	2	US-08-890-979-2	Sequence 2, Appli
592	26	57.8	429	2	US-09-543-681A-77552	Sequence 7252, Ap	665	26	57.8	509	2	US-08-890-979-2	Sequence 2, Appli
593	26	57.8	429	2	US-09-543-681A-77552	Sequence 7252, Ap	666	26	57.8	509	2	US-09-031-626-2	Sequence 2, Appli
594	26	57.8	438	1	US-09-710-279-508	Sequence 508, App	667	26	57.8	509	2	US-09-031-626-2	Sequence 2, Appli
595	26	57.8	445	1	US-08-630-118A-2	Sequence 2, Appli	668	26	57.8	510	2	US-09-034-272-59	Sequence 59, Appl
596	26	57.8	445	1	US-08-630-118A-4	Sequence 4, Appli	669	26	57.8	510	2	US-09-602-787A-356	Sequence 356, App
597	26	57.8	445	1	US-08-630-118A-6	Sequence 6, Appli	670	26	57.8	510	2	US-09-605-703B-2328	Sequence 2328, Ap
598	26	57.8	445	1	US-08-630-118A-6	Sequence 6, Appli	671	26	57.8	519	2	US-09-854-122-44	Sequence 44, Appl
599	26	57.8	445	1	US-08-630-118A-6	Sequence 6, Appli	672	26	57.8	519	2	US-08-637-670-27	Sequence 27, Appl
600	26	57.8	445	1	US-08-630-118A-6	Sequence 6, Appli	673	26	57.8	529	2	US-10-082-894-3	Sequence 3, Appli
601	26	57.8	445	1	US-09-003-199-21	Sequence 21, Appli	674	26	57.8	531	2	US-09-134-001C-4481	Sequence 4481, Ap
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686	26	57.8	569	2	US-09-765-271-154	Sequence 154, App	759	25.5	56.7	395	2	US-09-543-681A-7445	Sequence 7425, App
687	26	57.8	569	2	US-09-765-272A-154	Sequence 154, App	760	25.5	56.7	1698	2	US-09-315-793-12	Sequence 12, App
688	26	57.8	581	2	US-09-643-747A-13	Sequence 13, Appl	761	25	55.6	9	2	US-09-518-046-41	Sequence 41, Appl
689	26	57.8	581	2	US-09-649-747A-21	Sequence 21, Appl	762	25	55.6	9	2	US-09-650-371-41	Sequence 41, Appl
690	26	57.8	591	2	US-08-961-083-74	Sequence 74, Appl	763	25	55.6	15	1	US-08-031-538-11	Sequence 41, Appl
691	26	57.8	591	2	US-09-536-784-74	Sequence 74, Appl	764	25	55.6	15	1	US-08-031-538-51	Sequence 51, Appl
692	26	57.8	591	2	US-09-543-681A-7047	Sequence 7047, Ap	765	25	55.6	18	2	US-09-121-211-6	Sequence 6, Appl
693	26	57.8	591	2	US-09-765-271-74	Sequence 74, Appl	766	25	55.6	21	2	US-09-962-756-552	Sequence 552, App
694	26	57.8	591	2	US-09-765-272A-74	Sequence 74, Appl	767	25	55.6	24	2	US-08-462-918-74	Sequence 74, Appl
695	26	57.8	606	2	US-09-460-295B-12	Sequence 12, Appl	768	25	55.6	24	2	US-09-224-681-74	Sequence 74, Appl
696	26	57.8	613	2	US-09-548-796A-20764	Sequence 20764, A	769	25	55.6	24	2	US-08-316-728A-74	Sequence 74, Appl
697	26	57.8	614	2	US-09-543-681A-4330	Sequence 4330, Ap	770	25	55.6	24	2	US-09-635-251-74	Sequence 74, Appl
698	26	57.8	616	2	US-09-489-039A-12599	Sequence 12599, A	771	25	55.6	24	2	US-09-224-683-74	Sequence 74, Appl
699	26	57.8	629	2	US-09-949-016-7746	Sequence 7746, Ap	772	25	55.6	24	2	US-09-604-325A-74	Sequence 74, Appl
700	26	57.8	638	1	US-08-681-151-3	Sequence 3, Appl	773	25	55.6	26	1	US-08-221-730A-14	Sequence 14, Appl
701	26	57.8	640	2	US-09-949-016-8010	Sequence 8010, Ap	774	25	55.6	26	1	US-08-457-798-14	Sequence 14, Appl
702	26	57.8	653	2	US-09-443-184-50	Sequence 50, Appl	775	25	55.6	26	1	US-08-457-171-14	Sequence 14, Appl
703	26	57.8	658	2	US-09-769-787-17	Sequence 17, Appl	776	25	55.6	26	1	US-08-505-486-14	Sequence 14, Appl
704	26	57.8	663	2	US-09-194-468A-30	Sequence 30, Appl	777	25	55.6	26	1	US-08-475-328-14	Sequence 14, Appl
705	26	57.8	667	2	US-09-328-352-5747	Sequence 5747, Ap	778	25	55.6	26	2	US-08-689-489C-14	Sequence 14, Appl
706	26	57.8	672	2	US-09-769-787-155	Sequence 155, App	779	25	55.6	26	2	US-08-801-028-14	Sequence 14, Appl
707	26	57.8	687	2	US-09-248-796A-18382	Sequence 18382, A	780	25	55.6	26	2	US-09-340-154-14	Sequence 14, Appl
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713	26	57.8	721	2	US-09-583-110-5179	Sequence 5179, Ap	786	25	55.6	26	4	PCT-US95-09338-14	Sequence 14, Appl
714	26	57.8	741	2	US-09-248-796A-15489	Sequence 15489, A	787	25	55.6	26	4	PCT-US95-09338-14	Sequence 14, Appl
715	26	57.8	742	2	US-09-902-540-11489	Sequence 11489, A	788	25	55.6	28	2	US-09-270-767-59350	Sequence 59350, A
716	26	57.8	743	2	US-09-134-000C-4684	Sequence 4684, Ap	789	25	55.6	30	1	US-08-231-730A-13	Sequence 13, Appl
717	26	57.8	750	2	US-09-107-433-4321	Sequence 4321, Ap	790	25	55.6	30	1	US-08-457-798-13	Sequence 13, Appl
718	26	57.8	750	2	US-09-902-540-11016	Sequence 11016, A	791	25	55.6	30	1	US-08-457-171-13	Sequence 13, Appl
719	26	57.8	764	2	US-09-489-039A-8823	Sequence 8823, Ap	792	25	55.6	30	1	US-08-505-486-13	Sequence 13, Appl
720	26	57.8	795	2	US-10-104-047-2810	Sequence 2810, Ap	793	25	55.6	30	1	US-08-475-328-13	Sequence 13, Appl
721	26	57.8	826	2	US-09-134-000C-4999	Sequence 4999, Ap	794	25	55.6	30	2	US-08-689-489C-13	Sequence 13, Appl
722	26	57.8	827	2	US-10-101-464A-915	Sequence 915, App	795	25	55.6	30	2	US-08-801-028-13	Sequence 13, Appl
723	26	57.8	855	1	US-08-619-554-6	Sequence 6, Appli	796	25	55.6	30	2	US-09-340-154-13	Sequence 13, Appl
724	26	57.8	876	2	US-09-438-185A-894	Sequence 894, App	797	25	55.6	30	2	US-09-232-802A-13	Sequence 13, Appl
725	26	57.8	884	2	US-08-851-843A-55	Sequence 55, Appl	798	25	55.6	30	2	US-09-482-611B-13	Sequence 13, Appl
726	26	57.8	884	2	US-08-974-549A-222	Sequence 222, App	799	25	55.6	30	4	PCT-US94-06176-13	Sequence 13, Appl
727	26	57.8	884	2	US-08-854-050-55	Sequence 55, Appl	800	25	55.6	30	4	PCT-US95-04335-13	Sequence 13, Appl
728	26	57.8	884	2	US-09-430-323-55	Sequence 55, Appl	801	25	55.6	30	4	PCT-US95-04718-13	Sequence 13, Appl
729	26	57.8	884	2	US-09-402-181B-222	Sequence 222, App	802	25	55.6	30	4	PCT-US95-09338-13	Sequence 13, Appl
730	26	57.8	884	2	US-09-721-456-222	Sequence 222, App	803	25	55.6	30	4	PCT-US95-09338-13	Sequence 13, Appl
731	26	57.8	884	2	US-09-766-253-55	Sequence 55, Appl	804	25	55.6	34	2	US-08-482-918-79	Sequence 79, Appl
732	26	57.8	884	2	US-09-502-498C-5	Sequence 5, Appli	805	25	55.6	34	2	US-09-224-681-79	Sequence 79, Appl
733	26	57.8	884	2	US-09-502-424C-5	Sequence 5, Appli	806	25	55.6	34	2	US-08-336-728A-79	Sequence 79, Appl
734	26	57.8	884	2	US-10-054-295-55	Sequence 55, Appl	807	25	55.6	34	2	US-09-635-251-79	Sequence 79, Appl
735	26	57.8	884	2	US-09-438-486A-55	Sequence 55, Appl	808	25	55.6	34	2	US-09-224-683-79	Sequence 79, Appl
736	26	57.8	889	2	US-09-438-185A-614	Sequence 614, App	809	25	55.6	34	2	US-09-604-325A-79	Sequence 79, Appl
737	26	57.8	914	2	US-10-163-214-12	Sequence 12, Appl	810	25	55.6	37	2	US-08-482-918-80	Sequence 80, Appl
738	26	57.8	915	2	US-10-163-214-6	Sequence 6, Appli	811	25	55.6	37	2	US-09-224-681-80	Sequence 80, Appl
739	26	57.8	981	2	US-09-252-991A-18616	Sequence 18616, A	812	25	55.6	37	2	US-08-336-728A-80	Sequence 80, Appl
740	26	57.8	1003	2	US-09-521-511C-11	Sequence 11, Appl	813	25	55.6	37	2	US-09-635-251-80	Sequence 80, Appl
741	26	57.8	1017	2	US-09-600-776-6	Sequence 6, Appli	814	25	55.6	37	2	US-09-224-683-80	Sequence 80, Appl
742	26	57.8	1017	2	US-09-965-830-6	Sequence 6, Appli	815	25	55.6	37	2	US-09-604-325A-80	Sequence 80, Appl
743	26	57.8	1024	2	US-09-091-117-5	Sequence 5, Appli	816	25	55.6	39	2	US-09-902-540-10463	Sequence 10463, A
744	26	57.8	1030	2	US-09-091-117-2	Sequence 2, Appli	817	25	55.6	50	2	US-09-227-701-9	Sequence 9, Appli
745	26	57.8	1070	2	US-09-653-274-8	Sequence 8, Appli	818	25	55.6	62	2	US-09-248-796A-21473	Sequence 21473, A
746	26	57.8	1070	2	US-10-461-791-8	Sequence 8, Appli	819	25	55.6	63	2	US-09-270-767-60744	Sequence 60744, A
747	26	57.8	1086	2	US-09-653-274-4	Sequence 4, Appli	820	25	55.6	66	2	US-09-813-999C-6740	Sequence 6740, Ap
748	26	57.8	1086	2	US-10-461-791-4	Sequence 4, Appli	821	25	55.6	68	2	US-08-017-177-1	Sequence 1, Appli
749	26	57.8	1259	1	US-09-902-540-16442	Sequence 16442, A	822	25	55.6	68	4	PCT-US95-12686-21	Sequence 214, Appl
750	26	57.8	1674	1	US-08-968-542C-12	Sequence 12, Appl	823	25	55.6	70	2	US-09-288-143-214	Sequence 214, Appl
751	26	57.8	1764	2	US-09-554-67A-12	Sequence 12, Appl	824	25	55.6	71	2	US-09-328-352-7713	Sequence 7713, Ap
752	26	57.8	1768	2	US-08-477-451-12	Sequence 11704, A	825	25	55.6	73	2	US-09-248-796A-21178	Sequence 21308, A
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754	26	57.8	3135	1	US-08-954-441-2	Sequence 2, Appli	827	25	55.6	76	2	US-09-621-976-6064	Sequence 6064, Ap
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832	25	55.6	87	2	US-09-270-767-60924	Sequence 60924, A	905	25	55.6	196	2	US-08-482-918-40	Sequence 40, Appl
833	25	55.6	90	2	US-09-513-999C-7362	Sequence 7362, Ap	906	25	55.6	196	2	US-09-224-681-40	Sequence 40, Appl
834	25	55.6	91	2	US-09-621-976-6309	Sequence 6309, Ap	907	25	55.6	196	2	US-08-336-728A-40	Sequence 40, Appl
835	25	55.6	103	2	US-09-830-230A-58	Sequence 58, Appl	908	25	55.6	196	2	US-09-635-251-40	Sequence 40, Appl
836	25	55.6	107	2	US-09-248-796A-25154	Sequence 25154, A	909	25	55.6	196	2	US-09-107-433-5167	Sequence 5167, Ap
837	25	55.6	107	2	US-10-104-047-3667	Sequence 3667, Ap	910	25	55.6	196	2	US-09-224-663-40	Sequence 40, Appl
838	25	55.6	110	2	US-09-107-532A-4859	Sequence 4859, Ap	911	25	55.6	196	2	US-09-604-325A-40	Sequence 9, Appl
839	25	55.6	110	2	US-09-107-532A-6213	Sequence 6213, Ap	912	25	55.6	199	2	US-08-737-248-9	Sequence 9, Appl
840	25	55.6	114	2	US-09-248-796A-23592	Sequence 23592, A	913	25	55.6	199	2	US-09-248-796A-21055	Sequence 21055, A
841	25	55.6	115	2	US-09-710-279-600	Sequence 600, App	914	25	55.6	201	1	US-08-220-379B-4	Sequence 4, Appl
842	25	55.6	122	2	US-09-252-991A-31511	Sequence 31511, A	915	25	55.6	204	2	US-09-134-001C-4814	Sequence 4814, Ap
843	25	55.6	122	2	US-09-710-279-102	Sequence 102, App	916	25	55.6	204	2	US-09-902-540-15949	Sequence 15949, A
844	25	55.6	123	2	US-10-104-047-2112	Sequence 2112, App	917	25	55.6	205	2	US-09-270-767-44526	Sequence 44526, A
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848	25	55.6	125	2	US-09-270-767-53926	Sequence 53926, A	921	25	55.6	211	1	US-08-428-415-9	Sequence 9, Appl
849	25	55.6	126	2	US-09-328-352-5837	Sequence 5837, Ap	922	25	55.6	211	1	US-08-379-685-9	Sequence 9, Appl
850	25	55.6	128	2	US-09-270-767-32430	Sequence 32430, A	923	25	55.6	211	1	US-08-854-029-9	Sequence 9, Appl
851	25	55.6	128	2	US-09-270-767-47647	Sequence 47647, A	924	25	55.6	212	2	US-08-428-762-9	Sequence 9, Appl
852	25	55.6	132	1	US-08-470-179-26	Sequence 26, Appl	925	25	55.6	212	2	US-09-248-796A-20298	Sequence 20298, A
853	25	55.6	133	2	US-09-830-230A-57	Sequence 57, Appl	926	25	55.6	214	2	US-09-198-452A-108	Sequence 108, App
854	25	55.6	135	2	US-08-804-438A-93	Sequence 93, Appl	927	25	55.6	214	2	US-09-438-185A-92	Sequence 92, Appl
855	25	55.6	135	2	US-08-720-229-93	Sequence 93, Appl	928	25	55.6	216	2	US-08-914-375C-4	Sequence 4, Appl
856	25	55.6	136	2	US-09-489-039A-13120	Sequence 13120, A	929	25	55.6	217	2	US-09-328-352-7258	Sequence 7258, Ap
857	25	55.6	136	2	US-09-270-767-37441	Sequence 37441, A	930	25	55.6	217	2	US-09-248-796A-14339	Sequence 14339, A
858	25	55.6	136	2	US-09-270-767-52658	Sequence 52658, A	931	25	55.6	221	2	US-09-107-532A-4477	Sequence 4477, Ap
859	25	55.6	136	2	US-10-101-464A-675	Sequence 675, App	932	25	55.6	221	2	US-09-134-000C-6523	Sequence 15088, A
860	25	55.6	143	2	US-09-248-796A-16664	Sequence 16664, A	933	25	55.6	222	2	US-09-248-796A-15088	Sequence 412, App
861	25	55.6	143	2	US-09-248-796A-17140	Sequence 17140, A	934	25	55.6	222	2	US-08-845-566-10	Sequence 19120, A
862	25	55.6	143	2	US-09-248-796A-26060	Sequence 26060, A	935	25	55.6	222	2	US-09-602-787A-412	Sequence 412, App
863	25	55.6	151	2	US-09-134-001C-5595	Sequence 5595, Ap	936	25	55.6	222	2	US-09-248-796A-19130	Sequence 6303, Ap
864	25	55.6	151	2	US-09-270-767-46627	Sequence 46627, A	937	25	55.6	223	2	US-09-658-644-4	Sequence 6303, Ap
865	25	55.6	152	2	US-08-936-165A-664	Sequence 264, App	938	25	55.6	223	2	US-09-134-000C-6303	Sequence 6303, Ap
866	25	55.6	155	2	US-09-248-796A-17198	Sequence 17198, A	939	25	55.6	225	2	US-09-949-016-6832	Sequence 6832, Ap
867	25	55.6	159	2	US-09-270-767-41769	Sequence 41769, A	940	25	55.6	225	2	US-09-583-110-3540	Sequence 3540, Ap
868	25	55.6	162	2	US-09-270-767-34236	Sequence 34236, A	941	25	55.6	225	2	US-09-107-433-4721	Sequence 4721, Ap
869	25	55.6	162	2	US-09-270-767-49453	Sequence 49453, A	942	25	55.6	228	2	US-09-248-796A-21033	Sequence 21033, A
870	25	55.6	163	2	US-09-270-767-42196	Sequence 42196, A	943	25	55.6	230	2	US-09-134-001C-3744	Sequence 3744, Ap
871	25	55.6	163	2	US-09-270-767-45418	Sequence 45418, A	944	25	55.6	230	2	US-09-134-001C-3744	Sequence 43446, A
872	25	55.6	164	1	US-08-357-125-4	Sequence 4, Appl	945	25	55.6	234	2	US-09-107-532A-3787	Sequence 3787, Ap
873	25	55.6	164	1	US-09-248-796A-15415	Sequence 15415, A	946	25	55.6	237	2	US-08-924-747-28	Sequence 28, Appl
874	25	55.6	164	2	US-09-609-027B-8	Sequence 8, Appl	947	25	55.6	237	2	US-09-247-373B-28	Sequence 28, Appl
875	25	55.6	164	2	US-09-609-027B-9	Sequence 9, Appl	948	25	55.6	237	2	US-09-296-715-28	Sequence 28, Appl
876	25	55.6	165	2	US-08-482-918-1	Sequence 1, Appl	949	25	55.6	237	2	US-09-605-703B-2342	Sequence 2342, Ap
877	25	55.6	165	2	US-09-224-681-1	Sequence 1, Appl	950	25	55.6	241	2	US-09-372-422A-28	Sequence 422A, Ap
878	25	55.6	165	2	US-08-336-728A-1	Sequence 1, Appl	951	25	55.6	241	2	US-09-134-000C-6347	Sequence 6347, Ap
879	25	55.6	165	2	US-09-270-767-41018	Sequence 41018, A	952	25	55.6	249	2	US-09-372-422A-10	Sequence 10, Appl
880	25	55.6	165	2	US-09-270-767-56234	Sequence 56234, A	953	25	55.6	251	2	US-09-270-767-43279	Sequence 43279, A
881	25	55.6	165	2	US-09-635-251-1	Sequence 1, Appl	954	25	55.6	256	2	US-09-230-637-29	Sequence 29, Appl
882	25	55.6	165	2	US-09-224-683-1	Sequence 1, Appl	955	25	55.6	256	2	US-09-489-039A-11557	Sequence 11557, A
883	25	55.6	165	2	US-09-604-325A-1	Sequence 1, Appl	956	25	55.6	257	2	US-09-372-422A-28	Sequence 28, Appl
884	25	55.6	165	4	PCT-US95-03866-4	Sequence 4, Appl	957	25	55.6	257	2	US-10-104-047-3192	Sequence 3192, Ap
885	25	55.6	165	4	PCT-US95-03866-5	Sequence 5, Appl	958	25	55.6	258	2	US-09-543-681A-4613	Sequence 4613, Ap
886	25	55.6	167	2	US-09-710-279-1802	Sequence 1802, Ap	959	25	55.6	263	2	US-09-248-796A-14729	Sequence 14729, A
887	25	55.6	169	2	US-09-134-001C-5390	Sequence 5390, Ap	960	25	55.6	263	2	US-09-134-001C-1998	Sequence 20632, A
888	25	55.6	169	2	US-10-101-464A-506	Sequence 506, App	961	25	55.6	265	2	US-09-252-991A-20692	Sequence 57, Appl
889	25	55.6	170	2	US-09-107-532A-5197	Sequence 5197, Ap	962	25	55.6	266	2	US-08-482-918-57	Sequence 57, Appl
890	25	55.6	175	1	US-08-624-125-6	Sequence 6, Appl	963	25	55.6	266	2	US-09-224-681-57	Sequence 57, Appl
891	25	55.6	175	2	US-08-937-155-6	Sequence 6, Appl	964	25	55.6	266	2	US-08-336-728A-57	Sequence 57, Appl
892	25	55.6	175	2	US-09-323-998B-6	Sequence 6, Appl	965	25	55.6	266	2	US-10-083-62A-4	Sequence 4, Appl
893	25	55.6	175	2	US-09-248-796A-20044	Sequence 20044, A	966	25	55.6	266	2	US-09-635-251-57	Sequence 57, Appl
894	25	55.6	175	2	US-10-104-047-3905	Sequence 3905, Ap	967	25	55.6	266	2	US-09-224-681-57	Sequence 57, Appl
895	25	55.6	176	1	US-08-096-623A-18	Sequence 18, Appl	968	25	55.6	266	2	US-09-604-328A-57	Sequence 57, Appl
896	25	55.6	177	2	US-09-248-796A-16229	Sequence 16229, A	969	25	55.6	269	2	US-09-270-767-37552	Sequence 37552, A
897	25	55.6	185	2	US-09-583-110-2898	Sequence 2898, Ap	970	25	55.6	269	2	US-09-270-767-52763	Sequence 52763, A
898	25	55.6	187	2	US-09-270-767-34908	Sequence 34908, A	971	25	55.6	269	2	US-09-372-422A-26	Sequence 26, Appl
899	25	55.6	187	2	US-09-270-767-42922	Sequence 42922, A	972	25	55.6	272	2	US-09-270-767-35352	Sequence 35352, A
900	25	55.6	187	2	US-09-270-767-50125	Sequence 50125, A	973	25	55.6	272	2	US-09-270-767-50569	Sequence 50569, A
901	25	55.6	187	2	US-09-248-796A-15661	Sequence 15661, A	974	25	55.6	273	1	US-08-220-379B-6	Sequence 6, Appl
902	25	55.6	188	2	US-09-270-767-57801	Sequence 57801, A	975	25	55.6	273	1	US-08-341-458A-11	Sequence 11, Appl
903	25	55.6	191	2	US-08-858-207A-339	Sequence 339, App	976	25	55.6	273	1		

977 25 55.6 273 1 US-08-478-414A-11 Sequence 11, Appl  
978 25 55.6 273 2 US-08-325-240A-11 Sequence 11, Appl  
979 25 55.6 273 2 US-08-898-982-11 Sequence 11, Appl  
980 25 55.6 273 2 US-08-482-918-42 Sequence 42, Appl  
981 25 55.6 273 2 US-08-482-918-55 Sequence 55, Appl  
982 25 55.6 273 2 US-08-482-918-55 Sequence 55, Appl  
983 25 55.6 273 2 US-09-224-681-42 Sequence 42, Appl  
984 25 55.6 273 2 US-09-224-681-54 Sequence 54, Appl  
985 25 55.6 273 2 US-09-224-681-55 Sequence 55, Appl  
986 25 55.6 273 2 US-08-336-728A-42 Sequence 42, Appl  
987 25 55.6 273 2 US-08-336-728A-54 Sequence 54, Appl  
988 25 55.6 273 2 US-08-336-728A-55 Sequence 55, Appl  
989 25 55.6 273 2 US-09-371-261-11 Sequence 11, Appl  
990 25 55.6 273 2 US-09-635-251-42 Sequence 42, Appl  
991 25 55.6 273 2 US-09-635-251-54 Sequence 54, Appl  
992 25 55.6 273 2 US-09-635-251-55 Sequence 55, Appl  
993 25 55.6 273 2 US-09-224-683-42 Sequence 42, Appl  
994 25 55.6 273 2 US-09-224-683-54 Sequence 54, Appl  
995 25 55.6 273 2 US-09-224-683-55 Sequence 55, Appl  
996 25 55.6 273 2 US-09-604-325A-42 Sequence 42, Appl  
997 25 55.6 273 2 US-09-604-325A-54 Sequence 54, Appl  
998 25 55.6 273 2 US-09-604-325A-55 Sequence 55, Appl  
999 25 55.6 275 2 US-09-902-540-12996 Sequence 12996, A  
1000 25 55.6 275 2 US-09-902-540-13102 Sequence 13102, A

## ALIGNMENTS

RESULT 1  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolle, Mark  
APPLICANT: Eckstein, Jens W.  
APPLICANT: Diatta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029, 01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10  
Query Match 100.0%; Score 45; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.18; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 47 FAFKDLFV 55

RESULT 2  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolle, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Diatta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029, 04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19  
Query Match 100.0%; Score 45; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.18; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 FAFKDLFV 9  
Db 47 FAFKDLFV 55  
RESULT 3  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bourasnell, Michael E.  
APPLICANT: Ingliis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreyer  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco

STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117.083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 45; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.32;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 48 FAFKDLFV 56

RESULT 4  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 45; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.33;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 158 FAFKDLFV 166

RESULT 5  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 45; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.46;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 158 FAFKDLFV 166

RESULT 6  
US-09-328-352-6272  
Sequence 6272, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 6272  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-6272

Query Match 77.8%; Score 35; DB 2; Length 329;  
Best Local Similarity 85.7%; Pred. No. 36;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
Db 142 FAFKDLF 148

RESULT 7  
US-09-252-991A-32396  
Sequence 32396, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rudenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 32396  
LENGTH: 351  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-32396

Query Match 75.6%; Score 34; DB 2; Length 351;  
Best Local Similarity 81.8%; Pred. No. 60;  
Matches 9; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 1 FAF--KDLFFV 9  
Db 300 FAFKDLFFV 310

RESULT 8  
US-09-345-473E-27  
Sequence 27, Application US/09345473E  
Patent No. 6558903  
GENERAL INFORMATION:  
APPLICANT: Hodge, Martin  
TITLE OF INVENTION: No. 6558903el Kinases and Uses Thereof  
FILE REFERENCE: 35800/183781  
CURRENT APPLICATION NUMBER: US/09/345,473E  
CURRENT FILING DATE: 1999-06-30  
NUMBER OF SEQ ID NOS: 62  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 27  
LENGTH: 669  
TYPE: PRT  
ORGANISM: Arabidopsis thaliana  
US-09-345-473E-27

Query Match 75.6%; Score 34; DB 2; Length 669;  
Best Local Similarity 62.5%; Pred. No. 1.2e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFFV 8  
Db 332 FAYKDLVI 339

RESULT 9  
US-09-862-027-27  
Sequence 27, Application US/09862027  
Patent No. 6858418  
GENERAL INFORMATION:  
APPLICANT: Hodge, Martin R.  
TITLE OF INVENTION: No. 6858418el Kinases and Uses Thereof  
FILE REFERENCE: 35800/234862  
CURRENT APPLICATION NUMBER: US/09/862,027  
CURRENT FILING DATE: 2001-05-21  
PRIOR APPLICATION NUMBER: US 09/345,473  
PRIOR FILING DATE: 1999-06-30  
NUMBER OF SEQ ID NOS: 82  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 27  
LENGTH: 669  
TYPE: PRT  
ORGANISM: Arabidopsis thaliana  
US-09-862-027-27

Query Match 75.6%; Score 34; DB 2; Length 669;

Best Local Similarity 62.5%; Pred. No. 1.2e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFFV 8  
Db 332 FAYKDLVI 339

RESULT 10  
US-08-787-547-103  
Sequence 103, Application US/08787547  
Patent No. 5783567  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Curley, Joanne M.  
APPLICANT: Langer, Robert S.  
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY  
OF NUCLEIC ACID  
NUMBER OF SEQUENCES: 107  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson, P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: US  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/787,547  
FILING DATE: 22-JAN-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fraser, Janis K.  
REGISTRATION NUMBER: 34,819  
REFERENCE/DOCKET NUMBER: 08191/003001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-542-5070  
TELEFAX: 617-542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 103:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-787-547-103

Query Match 73.3%; Score 33; DB 1; Length 9;  
Best Local Similarity 66.7%; Pred. No. 4.6e+05;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFFV 9  
Db 1 FAFKDLFFV 9

RESULT 11  
US-08-197-484-67  
Sequence 67, Application US/08197484  
Patent No. 6419931  
GENERAL INFORMATION:  
APPLICANT: VITTELLO, Maria A.  
APPLICANT: CHESTNUT, Robert W.  
APPLICANT: SETTE, Alessandro D.  
APPLICANT: CELIS, Esterban  
APPLICANT: GRAY, Howard

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourie and Crew  
STREET: Steuart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/197,484  
FILING DATE: 16-FEB-1994  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (206) 623-6793  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
US-08-197-484-67  
Query Match 73.3%; Score 33; DB 2; Length 9;  
Best Local Similarity 66.7%; Pred. No. 4.6e+05;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9  
DB 1 FAFKDLFV 9  
RESULT 12  
PCT-US95-02121-67  
Sequence 67, Application PC/TUS9502121  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
TITLE OF INVENTION: CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/02121  
FILING DATE: 16-FEB-1995  
CLASSIFICATION:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/197,484  
FILING DATE: 16-FEB-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4PC  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
PCT-US95-02121-67  
Query Match 73.3%; Score 33; DB 4; Length 9;  
Best Local Similarity 66.7%; Pred. No. 4.6e+05;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9  
DB 1 FAFKDLFV 9  
RESULT 13  
US-09-980-523A-6  
Sequence 6, Application US/09980523A  
Patent No. 6783763  
GENERAL INFORMATION:  
APPLICANT: CHOPPIN, JEANMINE  
APPLICANT: BOURGAULT VILLADA, ISABELLE  
APPLICANT: GUILLET, JEAN-GERARD  
APPLICANT: CONNAN, FRANCINE  
APPLICANT: FERRIES, ESTELLE  
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
TITLE OF INVENTION: PARTICULARLY IN VACCINATION  
FILE REFERENCE: WO/01/00125  
CURRENT APPLICATION NUMBER: US/09/980,523A  
CURRENT FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: PCT/FR00/01513  
PRIOR FILING DATE: 2000-05-31  
PRIOR APPLICATION NUMBER: FR 99/07012  
PRIOR FILING DATE: 1999-06-03  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: Patent In Ver. 2.1  
SEQ ID NO 6  
LENGTH: 22  
TYPE: PRT  
ORGANISM: Human Papillomavirus  
US-09-980-523A-6  
Query Match 73.3%; Score 33; DB 2; Length 22;  
Best Local Similarity 66.7%; Pred. No. 5.4;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 9

Db 7 FAFRDLCTV 15

RESULT 14  
US-09-601-729-276  
; Sequence 276, Application US/09601729  
; Patent No. 6683052  
; GENERAL INFORMATION:  
; APPLICANT: THIAM, KADER  
; APPLICANT: AURIAULT, CLAUDE  
; APPLICANT: GRAS-MASSIE, HELENE  
; APPLICANT: LOING, ESTELLE  
; APPLICANT: VERMAERDE, CLAUDE  
; APPLICANT: GUILLET, JEAN GERARD  
; TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES  
; TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS  
; FILE REFERENCE: US-97-AU-IN  
; CURRENT APPLICATION NUMBER: US/09/601,729  
; PRIOR FILING DATE: 2000-11-20  
; PRIOR APPLICATION NUMBER: PCT/FR99/00259  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 98 01439  
; PRIOR FILING DATE: 1998-02-06  
; NUMBER OF SEQ ID NOS: 281  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 276  
; LENGTH: 23  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: peptide  
US-09-601-729-276

Query Match 73.3%; Score 33; DB 2; Length 23;  
Best Local Similarity 66.7%; Pred. No. 5.6;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 8 FAFRDLCTV 16

RESULT 15  
US-09-701-080C-18  
; Sequence 18, Application US/09701080C  
; Patent No. 6864054  
; GENERAL INFORMATION:  
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY  
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION  
; FILE REFERENCE: N73477C GCM  
; CURRENT APPLICATION NUMBER: US/09/701,080C  
; CURRENT FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: GB 9811303.8  
; PRIOR FILING DATE: 1998-05-26  
; PRIOR APPLICATION NUMBER: GB 9900157.0  
; PRIOR FILING DATE: 1999-01-05  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 18  
; LENGTH: 151  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-09-701-080C-18

Query Match 73.3%; Score 33; DB 2; Length 151;  
Best Local Similarity 66.7%; Pred. No. 39;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Db 45 FAFRDLCTV 53

RESULT 16  
US-09-980-523A-2  
; Sequence 2, Application US/09980523A  
; Patent No. 6783763  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCINE  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7  
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE  
; FILE REFERENCE: WO1 AO INS  
; CURRENT APPLICATION NUMBER: US/09/980,523A  
; PRIOR FILING DATE: 2002-04-29  
; PRIOR APPLICATION NUMBER: PCT/FR00/01513  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: FR 99/07012  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-09-980-523A-2

Query Match 73.3%; Score 33; DB 2; Length 158;  
Best Local Similarity 66.7%; Pred. No. 41;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 52 FAFRDLCTV 60

RESULT 17  
US-08-316-239B-3  
; Sequence 3, Application US/08316239B  
; Patent No. 5678509  
; GENERAL INFORMATION:  
; APPLICANT: Wheeler, Cosette M.  
; APPLICANT: Parmentier, Cheryl A.  
; TITLE OF INVENTION: Methods and a Diagnostic Aid for  
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Jagtiani & Associates  
; STREET: 6126 Rocky Way Court  
; CITY: Centerville  
; STATE: VA  
; COUNTRY: USA  
; ZIP: 20120-3400  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/316,239B  
; FILING DATE: 30-SEP-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jagtiani, Ajay A.  
; REGISTRATION NUMBER: 35,205  
; REFERENCE/DOCKET NUMBER: UNME-0001  
; TELECOMMUNICATION INFORMATION:



TELEPHONE: (703) 817-9453  
 TELEFAX: (703) 803-9387  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 162 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: not relevant  
 TOPOLOGY: not relevant  
 MOLECULE TYPE: protein  
 HYPOTHEICAL: NO  
 US-08-316-239B-3

Query Match 73.3%; Score 33; DB 1; Length 162;  
 Best Local Similarity 66.7%; Pred. No. 42;  
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
 |||:|:|  
 Db 52 FAFRDLCTV 60

RESULT 18  
 US-08-316-239B-4  
 Sequence 4, Application US/08316239B  
 Patent No. 5679509  
 GENERAL INFORMATION:  
 APPLICANT: Wheeler, Cosette M.  
 TITLE OF INVENTION: Method and a Diagnostic Aid for  
 TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an  
 TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and  
 TITLE OF INVENTION: Cervical Cancer  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Jagtiani & Associates  
 STREET: 6126 Rocky Way Court  
 CITY: Centreville  
 STATE: VA  
 COUNTRY: USA  
 ZIP: 20120-3400  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/316,239B  
 FILING DATE: 30-SEP-1994  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jagtiani, Ajay A.  
 REGISTRATION NUMBER: 35,205  
 REFERENCE/DOCKET NUMBER: UNME-0001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (703) 817-9453  
 TELEFAX: (703) 803-9387  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 162 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: not relevant  
 TOPOLOGY: not relevant  
 MOLECULE TYPE: protein  
 HYPOTHEICAL: NO  
 US-08-316-239B-4

Query Match 73.3%; Score 33; DB 1; Length 162;  
 Best Local Similarity 66.7%; Pred. No. 42;  
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 FAFKDLFV 9  
 |||:|:|  
 Db 52 FAFRDLCTV 60

RESULT 19  
 US-08-860-165-14  
 Sequence 14, Application US/08860165A  
 Patent No. 6004557  
 GENERAL INFORMATION:  
 APPLICANT: EDWARDS, Stirling John  
 APPLICANT: COX, John Cooper  
 APPLICANT: WEBB, Elizabeth Ann  
 APPLICANT: FRAZER, Ian  
 TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
 FILE REFERENCE: 17227/110  
 CURRENT APPLICATION NUMBER: US/08/860,165A  
 CURRENT FILING DATE: 1997-09-22  
 EARLIER APPLICATION NUMBER: PCT/AU95/00868  
 EARLIER FILING DATE: 1995-12-20  
 EARLIER APPLICATION NUMBER: AU PN0157  
 EARLIER FILING DATE: 1994-12-20  
 NUMBER OF SEQ ID NOS: 15  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO 14  
 LENGTH: 172  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
 US-08-860-165-14

Query Match 73.3%; Score 33; DB 2; Length 172;  
 Best Local Similarity 66.7%; Pred. No. 45;  
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
 |||:|:|  
 Db 121 FAFRDLCTV 129

RESULT 20  
 US-09-359-382-14  
 Sequence 14, Application US/09359382  
 Patent No. 6306397  
 GENERAL INFORMATION:  
 APPLICANT: EDWARDS, Stirling John  
 APPLICANT: COX, John Cooper  
 APPLICANT: WEBB, Elizabeth Ann  
 APPLICANT: FRAZER, Ian  
 TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
 FILE REFERENCE: 017227/0148  
 CURRENT APPLICATION NUMBER: US/09/359,382  
 CURRENT FILING DATE: 1999-07-23  
 EARLIER APPLICATION NUMBER: US 08/860,165  
 EARLIER FILING DATE: 1997-09-22  
 EARLIER APPLICATION NUMBER: PCT/AU95/00868  
 EARLIER FILING DATE: 1995-12-20  
 EARLIER APPLICATION NUMBER: AU PN0157/94  
 EARLIER FILING DATE: 1994-12-20  
 NUMBER OF SEQ ID NOS: 27  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO 14  
 LENGTH: 172  
 TYPE: PRT  
 ORGANISM: Human papillomavirus type 16  
 US-09-359-382-14

Query Match 73.3%; Score 33; DB 2; Length 172;  
 Best Local Similarity 66.7%; Pred. No. 45;  
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 FAFKDLFV 9  
 |||:|:|  
 Db 121 FAFRDLCTV 129

RESULT 21  
US-09-462-993-1  
; Sequence 1, Application US/09462993  
; Patent No. 6884786  
; GENERAL INFORMATION:  
; APPLICANT: KIENY, Marie-Paule  
; APPLICANT: BALLOU, Jean-Marc  
; APPLICANT: BIZOUANE, Nadine  
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC  
; FILE REFERENCE: 017753-122  
; CURRENT APPLICATION NUMBER: US/09/462,993  
; PRIOR FILING DATE: 2000-04-17  
; PRIOR APPLICATION NUMBER: PCT/FR98/01576  
; PRIOR FILING DATE: 1998-07-17  
; PRIOR APPLICATION NUMBER: FR 97/09152  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: Patentin Ver. 2.2  
; SEQ ID NO 1  
; LENGTH: 243  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Derived from  
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein  
; OTHER INFORMATION: fused F protein signals, clone E6\*TMF.  
US-09-462-993-1

Query Match 73.3%; Score 33; DB 2; Length 243;  
Best Local Similarity 66.7%; Pred. No. 65;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 80 FAFRDLCTIV 88

RESULT 22  
US-08-860-165-10  
; Sequence 10, Application US/08860165A  
; Patent No. 6004557  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 17227/1130  
; CURRENT APPLICATION NUMBER: US/08/860,165A  
; PRIOR FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PN0157  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion  
US-08-860-165-10

Query Match 73.3%; Score 33; DB 2; Length 266;  
Best Local Similarity 66.7%; Pred. No. 71;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 52 FAFRDLCTIV 60

RESULT 23  
US-09-359-382-10  
; Sequence 10, Application US/09359382  
; Patent No. 6306397  
; GENERAL INFORMATION:  
; APPLICANT: EDWARDS, Stirling John  
; APPLICANT: COX, John Cooper  
; APPLICANT: WEBB, Elizabeth Ann  
; APPLICANT: FRAZER, Ian  
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS  
; FILE REFERENCE: 017227/0148  
; CURRENT APPLICATION NUMBER: US/09/359,382  
; PRIOR FILING DATE: 1999-07-23  
; EARLIER APPLICATION NUMBER: US 08/860,165  
; EARLIER FILING DATE: 1997-09-22  
; EARLIER APPLICATION NUMBER: PCT/AU95/00868  
; EARLIER FILING DATE: 1995-12-20  
; EARLIER APPLICATION NUMBER: AU PN0157/94  
; EARLIER FILING DATE: 1994-12-20  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 10  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-359-382-10

Query Match 73.3%; Score 33; DB 2; Length 266;  
Best Local Similarity 66.7%; Pred. No. 71;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 52 FAFRDLCTIV 60

RESULT 24  
US-09-367-309A-1  
; Sequence 1, Application US/09367309A  
; Patent No. 6428807  
; GENERAL INFORMATION:  
; APPLICANT: MACFARLAN, RODERICK I.  
; APPLICANT: MALLIAROS, JIM  
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES  
; FILE REFERENCE: 017227/0149  
; CURRENT APPLICATION NUMBER: US/09/367,309A  
; PRIOR FILING DATE: 1999-08-11  
; PRIOR APPLICATION NUMBER: PCT/AU98/00080  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: AU PO 5178  
; PRIOR FILING DATE: 1997-02-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-09-367-309A-1

Query Match 73.3%; Score 33; DB 2; Length 266;  
Best Local Similarity 66.7%; Pred. No. 71;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9  
Db 52 FAFRDLCTIV 60

RESULT 25  
US-09-485-885-4  
; Sequence 4, Application US/09485885

```
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match      73.3%; Score 33; DB 2; Length 273;
Best Local Similarity 66.7%; Pred. No. 73;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVY 9
DB 158 FAFRDLCTV 166

RESULT 26
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match      73.3%; Score 33; DB 2; Length 292;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVY 9
DB 177 FAFRDLCTV 185

RESULT 27
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
```

```
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match      73.3%; Score 33; DB 2; Length 371;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVY 9
DB 158 FAFRDLCTV 166

RESULT 28
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match      73.3%; Score 33; DB 2; Length 390;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVY 9
DB 177 FAFRDLCTV 185

RESULT 29
US-09-270-767-60100
; Sequence 60100, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
```

; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 60100  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-60100

Query Match 71.1%; Score 32; DB 2; Length 99;  
Best Local Similarity 75.0%; Pred. No. 40;  
Matches 6; Conservative 1; Indels 0; Gaps 0;

Qy 2 AFKDLFV 9  
Db 31 AFKDLIV 38

RESULT 30  
US-09-248-796A-14111  
; Sequence 14111, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 14111  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-14111

Query Match 71.1%; Score 32; DB 2; Length 175;  
Best Local Similarity 85.7%; Pred. No. 72;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AFKDLFV 8  
Db 113 SFKDLFV 119

RESULT 31  
US-08-117-083-10  
; Sequence 10, Application US/08117083  
; Patent No. 5719054  
; GENERAL INFORMATION:  
; APPLICANT: Boursnell, Michael E.  
; APPLICANT: Inglis, Stephen C.  
; APPLICANT: Munro, Alan J.  
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
; TITLE OF INVENTION: Papilloma Virus Proteins  
; NUMBER OF SEQUENCES: 70  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Walter H. Dreger  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/117,083  
; FILING DATE: 10-SEP-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dreger, Walter H.  
; REGISTRATION NUMBER: 24,190  
; REFERENCE/DOCKET NUMBER: A-58783  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-781-1989  
; TELEFAX: 415-398-3249  
; TELEX: 910 277299  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 182 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FEATURE:  
; NAME/KEY: Protein  
; LOCATION: 1..182  
; OTHER INFORMATION: /note="Xaa refers to stop codon in  
; OTHER INFORMATION: the open reading frame."  
US-08-117-083-10

Query Match 71.1%; Score 32; DB 1; Length 182;  
Best Local Similarity 55.6%; Pred. No. 75;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 53 FAFKDLII 61

RESULT 32  
US-09-562-737-6  
; Sequence 6, Application US/09562737  
; Patent No. 6428967  
; GENERAL INFORMATION:  
; APPLICANT: Herz, Joachim  
; APPLICANT: Gotthardt, Michael  
; TITLE OF INVENTION: LDL Receptor Signaling Pathways  
; FILE REFERENCE: UTSW0708  
; CURRENT APPLICATION NUMBER: US/09/562,737  
; CURRENT FILING DATE: 2000-05-01  
; NUMBER OF SEQ ID NOS: 132  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 333  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-562-737-6

Query Match 71.1%; Score 32; DB 2; Length 333;  
Best Local Similarity 75.0%; Pred. No. 1,4e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 8  
Db 311 FAFKDLFV 318

RESULT 33  
US-09-562-737-9  
; Sequence 9, Application US/09562737  
; Patent No. 6428967  
; GENERAL INFORMATION:  
; APPLICANT: Herz, Joachim  
; APPLICANT: Gotthardt, Michael  
; TITLE OF INVENTION: LDL Receptor Signaling Pathways

FILE REFERENCE: UTSW0708  
CURRENT APPLICATION NUMBER: US/09/562,737  
CURRENT FILING DATE: 2000-05-01  
NUMBER OF SEQ ID NOS: 132  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO: 9  
LENGTH: 333  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-562-737-9

Query Match 71.1%; Score 32; DB 2; Length 333;  
Best Local Similarity 77.8%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 FAFKDLFV 9  
|||  
Db 311 FAFPFDFV 319

RESULT 34  
US-09-270-767-44648  
Sequence 44648, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 44648  
LENGTH: 401  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-44648

Query Match 71.1%; Score 32; DB 2; Length 401;  
Best Local Similarity 75.0%; Pred. No. 1.7e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 AFDLFLV 9  
|||  
Db 31 AFDLFLVI 38

RESULT 35  
US-09-328-352-6968  
Sequence 6968, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 6968  
LENGTH: 502  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-6968

Query Match 71.1%; Score 32; DB 2; Length 502;  
Best Local Similarity 62.5%; Pred. No. 2.1e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1 FAFKDLFV 8  
|||  
Db 251 FSPKELFV 258

RESULT 36  
US-09-107-532A-7133  
Sequence 7133, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 7133:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 126 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...126  
SEQUENCE DESCRIPTION: SEQ ID NO: 7133:  
US-09-107-532A-7133

Query Match 68.9%; Score 31; DB 2; Length 126;  
Best Local Similarity 71.4%; Pred. No. 81;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 2 AFDLFLV 8  
|||  
Db 74 AFDLFLVI 80

RESULT 37  
US-09-605-703B-2388  
Sequence 2388, Application US/09605703B  
Patent No. 6962989  
GENERAL INFORMATION:  
APPLICANT: Pompejus, Markus  
APPLICANT: Kroger, Burkhard

APPLICANT: Schroder, Hartwig  
APPLICANT: Zelder, Oskar  
APPLICANT: Habermann, Gregor  
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING NOVEL  
FILE REFERENCE: BGI-129CP  
CURRENT APPLICATION NUMBER: US/09/605,703B  
CURRENT FILING DATE: 2000-06-27  
PRIOR APPLICATION NUMBER: 60/142,764  
PRIOR FILING DATE: 1999-07-08  
PRIOR APPLICATION NUMBER: 60/152,318  
PRIOR FILING DATE: 1999-09-03  
NUMBER OF SEQ ID NOS: 2934  
SEQ ID NO 2388  
LENGTH: 233  
TYPE: PRT  
ORGANISM: Corynebacterium glutamicum  
US-09-605-703B-2388

Query Match 68.9%; Score 31; DB 2; Length 233;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3 AFKDLFV 8  
Db 10 AFKDLFV 15

RESULT 38  
US-09-830-230A-616  
Sequence 616, Application US/09830230A  
Patent No. 6902893  
GENERAL INFORMATION:  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Lyme Disease Vaccines  
FILE REFERENCE: PB481US  
CURRENT APPLICATION NUMBER: US/09/830,230A  
CURRENT FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: PCT/US98/12718  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/057,483  
PRIOR FILING DATE: 1997-09-03  
PRIOR APPLICATION NUMBER: 60/053,344  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/053,377  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/050,359  
PRIOR FILING DATE: 1997-06-20  
NUMBER OF SEQ ID NOS: 756  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 616  
LENGTH: 235  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-830-230A-616

Query Match 68.9%; Score 31; DB 2; Length 235;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 AFKDLF 7  
Db 84 AFKDLF 89

RESULT 39  
US-09-830-230A-615  
Sequence 615, Application US/09830230A  
Patent No. 6902893  
GENERAL INFORMATION:  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Lyme Disease Vaccines  
FILE REFERENCE: PB481US

CURRENT APPLICATION NUMBER: US/09/830,230A  
CURRENT FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: PCT/US98/12718  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/057,483  
PRIOR FILING DATE: 1997-09-03  
PRIOR APPLICATION NUMBER: 60/053,344  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/053,377  
PRIOR FILING DATE: 1997-07-22  
PRIOR APPLICATION NUMBER: 60/050,359  
PRIOR FILING DATE: 1997-06-20  
NUMBER OF SEQ ID NOS: 756  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 615  
LENGTH: 274  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-830-230A-615

Query Match 68.9%; Score 31; DB 2; Length 274;  
Best Local Similarity 100.0%; Pred. No. 1.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 AFKDLF 7  
Db 112 AFKDLF 117

RESULT 40  
US-09-248-796A-17597  
Sequence 17597, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstock et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 17597  
LENGTH: 307  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-17597

Query Match 68.9%; Score 31; DB 2; Length 307;  
Best Local Similarity 85.7%; Pred. No. 2e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 FAFKDLF 7  
Db 92 FAFKDLF 98

RESULT 41  
US-09-107-433-4666  
Sequence 4666, Application US/09107433  
Patent No. 6800744  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOSIS  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street

CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Arinleilo, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 4666:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (B) LOCATION 1...338  
SEQUENCE DESCRIPTION: SEQ ID NO: 4666:  
US-09-107-433-4666  
Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3 FKDLFV 8  
DB 189 FKDLFV 194  
RESULT 42  
US-09-270-767-45247  
Sequence 45247, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 45247  
LENGTH: 370  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-45247  
Query Match 68.9%; Score 31; DB 2; Length 370;  
Best Local Similarity 75.0%; Pred. No. 2.5e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 FAFKDLFV 8

DB 191 FAYKDNFV 198  
RESULT 43  
US-09-583-110-4693  
Sequence 4693, Application US/09583110  
Patent No. 6699703  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al.  
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
FILE REFERENCE: PAT00-07A  
CURRENT APPLICATION NUMBER: US/09/583,110  
CURRENT FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/107,433  
PRIOR FILING DATE: 1998-06-30  
PRIOR APPLICATION NUMBER: US 60/085,131  
PRIOR FILING DATE: 1998-05-12  
PRIOR APPLICATION NUMBER: US 60/051,553  
PRIOR FILING DATE: 1997-07-02  
NUMBER OF SEQ ID NOS: 5322  
SEQ ID NO 4693  
LENGTH: 440  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4693  
Query Match 68.9%; Score 31; DB 2; Length 440;  
Best Local Similarity 100.0%; Pred. No. 2.9e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3 FKDLFV 8  
DB 291 FKDLFV 296  
RESULT 44  
US-09-991-181-160  
Sequence 160, Application US/09991181  
Patent No. 6913919  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Geider, Hanspeter  
APPLICANT: Gerlitsen, Mary B.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C53  
CURRENT APPLICATION NUMBER: US/09/991,181  
CURRENT FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16





PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02; Indels 0; Gaps 0;  
Matches 6; Conservative 0; Mismatches 0;

Cy 3 FKDLFV 8  
Db 139 FKDLFV 144

RESULT 45  
US-09-990-444-160  
Sequence 160; Application US/09990444  
Patent No. 6930170  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deenoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, V. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C19  
CURRENT APPLICATION NUMBER: US/09/990,444  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
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PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
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PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 FKDLFV 8  
Db 139 FKDLFV 144

RESULT 46  
US-09-997-333-160  
Sequence 160, Application US/09997333  
Patent No. 6953836  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Denoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P27301C27  
CURRENT APPLICATION NUMBER: US/09/997,333  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
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PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
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Query March 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3 FKDLFV 8  
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RESULT 47  
US-09-992-598-160  
; Sequence 160, Application US/09992598  
; Patent No. 6956108  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
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; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Activated and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C20  
; CURRENT APPLICATION NUMBER: US/09/992,598  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 68.9%; Score 31; DB 2; Length 556;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 FKDLFV 8  
DB 139 FKDLFV 144

RESULT 48  
US-09-902-540-15502  
Sequence 15502, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(115849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 15502  
LENGTH: 560  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-15502

Query Match 68.9%; Score 31; DB 2; Length 560;  
Best Local Similarity 100.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 259 AFKDLF 264

RESULT 49  
US-09-949-016-11325  
Sequence 11325, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CLO01307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 11325  
LENGTH: 574  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-11325

Query Match 68.9%; Score 31; DB 2; Length 574;  
Best Local Similarity 100.0%; Pred. No. 3.9e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 FKDLFV 8  
DB 157 FKDLFV 162

RESULT 50  
US-08-464-531-114  
Sequence 114, Application US/08464531  
Patent No. 5789184  
GENERAL INFORMATION:  
APPLICANT: FOWLES, Dana M.  
APPLICANT: BROACH, Jim  
APPLICANT: MANFREDI, John  
APPLICANT: KLEIN, Christine  
APPLICANT: MURPHY, Andrew J.  
APPLICANT: PAUL, Jeremy  
APPLICANT: TRUEHART, Joshua  
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE  
NUMBER OF SEQUENCES: 119  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/464,531  
FILING DATE: 05-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/322,137  
FILING DATE: 13-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/309,313  
FILING DATE: 20-SEP-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/190,328  
FILING DATE: 31-JAN-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/041,431  
FILING DATE: 31-MAR-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: COOPER, Iver P.  
REGISTRATION NUMBER: 28,005  
REFERENCE/DOCKET NUMBER: FOLWRES=2G  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 114:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 62 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-464-531-114

Query Match 66.7%; Score 30; DB 1; Length 62;  
Best Local Similarity 71.4%; Pred. No. 61;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
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Db 12 FTFKDLV 18

Search completed: May 5, 2006, 06:23:54  
Job time : 26.9 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds  
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66.793 Million cell updates/sec

Title: US-08-170-344-27  
Perfect score: 45  
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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_Main:\*  
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2: /cgn2\_6/ptodata/1/pubppaa/US08\_PUBCOMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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1	45	100.0	158	US-10-800-023-27	Sequence 27, App1
2	45	100.0	158	US-11-021-949-28	Sequence 28, App1
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263	3.1	68.9	556	3	US-09-993-583-160	Sequence 160, App	336	3.1	68.9	556	4	US-10-176-925-136	Sequence 136, App
264	3.1	68.9	556	3	US-09-941-992-160	Sequence 160, App	337	3.1	68.9	556	4	US-10-177-978-136	Sequence 136, App
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318	3.1	68.9	556	4	US-10-176-992-136	Sequence 136, App	392	3.1	68.9	556	4	US-10-187-602-136	Sequence 136, App
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573	31	68.9	556	4	US-10-202-412-136	Sequence 136, App	646	31	68.9	556	4	US-10-202-410-136	Sequence 136, App
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582	31	68.9	556	4	US-10-063-555-24	Sequence 24, App1	655	31	68.9	556	4	US-10-205-901-136	Sequence 136, App
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861	31	68.9	556	4	US-10-063-596-24	Sequence 24, Appl	934	31	68.9	556	4	US-10-179-523-136	Sequence 136, App
862	31	68.9	556	4	US-10-063-600-24	Sequence 24, Appl	935	31	68.9	556	4	US-10-199-463-136	Sequence 136, App
863	31	68.9	556	4	US-10-063-604-24	Sequence 24, Appl	936	31	68.9	556	4	US-10-202-471-136	Sequence 136, App
864	31	68.9	556	4	US-10-063-607-24	Sequence 24, Appl	937	31	68.9	556	4	US-10-207-915-136	Sequence 136, App
865	31	68.9	556	4	US-10-063-612-24	Sequence 24, Appl	938	31	68.9	556	4	US-10-219-538-160	Sequence 160, App
866	31	68.9	556	4	US-10-063-615-24	Sequence 24, Appl	939	31	68.9	556	4	US-10-197-709-136	Sequence 136, App
867	31	68.9	556	4	US-10-063-640-24	Sequence 24, Appl	940	31	68.9	556	4	US-10-206-670-136	Sequence 136, App
868	31	68.9	556	4	US-10-063-642-24	Sequence 24, Appl	941	31	68.9	556	4	US-10-199-670-136	Sequence 136, App
869	31	68.9	556	4	US-10-063-644-24	Sequence 24, Appl	942	31	68.9	556	4	US-10-205-858-136	Sequence 136, App
870	31	68.9	556	4	US-10-063-649-24	Sequence 24, Appl	943	31	68.9	556	4	US-10-208-024-136	Sequence 136, App
871	31	68.9	556	4	US-10-063-650-24	Sequence 24, Appl	944	31	68.9	556	4	US-10-063-745-24	Sequence 136, App
872	31	68.9	556	4	US-10-063-652-24	Sequence 24, Appl	945	31	68.9	556	4	US-10-201-853-136	Sequence 136, App
873	31	68.9	556	4	US-10-063-654-24	Sequence 24, Appl	946	31	68.9	556	4	US-10-063-745-24	Sequence 24, Appl
874	31	68.9	556	4	US-10-063-659-24	Sequence 24, Appl	947	31	68.9	556	4	US-10-267-502-275	Sequence 275, App
875	31	68.9	556	4	US-10-063-661-24	Sequence 24, Appl	948	31	68.9	556	4	US-10-267-502-275	Sequence 275, App
876	31	68.9	556	4	US-10-063-528-24	Sequence 24, Appl	949	31	68.9	556	4	US-10-206-916-136	Sequence 136, App
877	31	68.9	556	4	US-10-063-540-24	Sequence 24, Appl	950	31	68.9	556	4	US-10-972-317-24	Sequence 38, Appl
878	31	68.9	556	4	US-10-063-568-24	Sequence 24, Appl	951	31	68.9	556	4	US-10-490-064-38	Sequence 48, Appl
879	31	68.9	556	4	US-10-063-570-24	Sequence 24, Appl	952	31	68.9	556	4	US-10-183-001-136	Sequence 136, App
880	31	68.9	556	4	US-10-063-582-24	Sequence 24, Appl	953	31	68.9	556	4	US-10-950-374-160	Sequence 160, App
881	31	68.9	556	4	US-10-063-587-24	Sequence 24, Appl	954	31	68.9	556	4	US-10-175-749-136	Sequence 136, App
882	31	68.9	556	4	US-10-063-592-24	Sequence 24, Appl	955	31	68.9	556	4	US-10-180-554-136	Sequence 136, App
883	31	68.9	556	4	US-10-063-597-24	Sequence 24, Appl	956	31	68.9	556	4	US-10-055-569A-73	Sequence 73, Appl
884	31	68.9	556	4	US-10-063-602-24	Sequence 24, Appl	957	31	68.9	557	4	US-10-055-569A-74	Sequence 74, Appl
885	31	68.9	556	4	US-10-063-606-24	Sequence 24, Appl	958	31	68.9	605	4	US-10-267-502-275	Sequence 275, App
886	31	68.9	556	4	US-10-063-609-24	Sequence 24, Appl	959	31	68.9	605	4	US-10-437-963-139769	Sequence 139769, App
887	31	68.9	556	4	US-10-063-611-24	Sequence 24, Appl	960	31	68.9	637	4	US-10-437-963-155251	Sequence 155251, App
888	31	68.9	556	4	US-10-063-614-24	Sequence 24, Appl	961	31	68.9	637	4	US-10-481-032A-32	Sequence 22, Appl
889	31	68.9	556	4	US-10-063-639-24	Sequence 24, Appl	962	31	68.9	673	4	US-10-437-963-167687	Sequence 167687, App
890	31	68.9	556	4	US-10-063-643-24	Sequence 24, Appl	963	31	68.9	673	4	US-10-437-963-167795	Sequence 167795, App
891	31	68.9	556	4	US-10-063-646-24	Sequence 24, Appl	964	31	68.9	674	4	US-10-437-963-167925	Sequence 167925, App
892	31	68.9	556	4	US-10-063-651-24	Sequence 24, Appl	965	31	68.9	681	4	US-10-425-115-350347	Sequence 1509325, App
893	31	68.9	556	4	US-10-063-653-24	Sequence 24, Appl	966	31	68.9	681	4	US-10-425-115-350347	Sequence 267764, App
894	31	68.9	556	4	US-10-063-653-24	Sequence 24, Appl	967	31	68.9	681	4	US-10-425-115-350347	Sequence 195433, App
895	31	68.9	556	4	US-10-063-660-24	Sequence 24, Appl	968	31	68.9	803	4	US-10-437-963-147284	Sequence 350347, App
896	31	68.9	556	4	US-10-063-665-24	Sequence 24, Appl	969	31	68.9	1001	4	US-10-437-963-152284	Sequence 147284, App
897	31	68.9	556	4	US-10-063-584-24	Sequence 24, Appl	970	31	68.9	1111	4	US-10-437-963-152284	Sequence 125284, App
898	31	68.9	556	4	US-10-063-536-24	Sequence 24, Appl	971	31	68.9	1159	4	US-10-437-963-119167	Sequence 119167, App
899	31	68.9	556	4	US-10-063-562-24	Sequence 24, Appl	972	31	68.9	1518	4	US-10-369-493-11718	Sequence 11718, App
900	31	68.9	556	4	US-10-063-638-24	Sequence 24, Appl	973	31	68.9	3	4	US-10-437-963-112871	Sequence 112871, App
901	31	68.9	556	4	US-10-063-666-24	Sequence 24, Appl	974	31	68.9	35	4	US-10-767-701-53603	Sequence 53603, App
902	31	68.9	556	4	US-10-063-672-24	Sequence 24, Appl	975	30	66.7	57	3	US-09-864-408A-6492	Sequence 6492, App
903	31	68.9	556	4	US-10-063-682-24	Sequence 24, Appl	976	30	66.7	61	4	US-10-767-701-61527	Sequence 61527, App
										62	3	US-09-309-196-114	Sequence 114, App

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977 30 66.7 62 4 US-10-263-341-114 Sequence 114, App
978 30 66.7 62 4 US-10-600-003-114 Sequence 114, App
979 30 66.7 120 3 US-09-864-408A-8898 Sequence 8898, Ap
980 30 66.7 129 4 US-10-437-963-158594 Sequence 158594, A
981 30 66.7 132 4 US-10-767-701-60601 Sequence 60601, A
982 30 66.7 133 5 US-10-732-923-8042 Sequence 8042, A
983 30 66.7 139 4 US-10-767-701-38883 Sequence 38883, A
984 30 66.7 144 4 US-10-425-115-237649 Sequence 237649, A
985 30 66.7 146 3 US-09-893-737-42 Sequence 42, App1
986 30 66.7 146 5 US-10-970-713-42 Sequence 42, App1
987 30 66.7 147 5 US-10-617-320-4920 Sequence 4920, Ap
988 30 66.7 148 4 US-10-437-963-181563 Sequence 181563, A
989 30 66.7 149 6 US-11-021-949-18 Sequence 18, App1
990 30 66.7 150 4 US-10-424-599-235174 Sequence 235174, A
991 30 66.7 153 3 US-09-882-227-130 Sequence 130, App
992 30 66.7 161 4 US-10-425-115-244432 Sequence 244432, A
993 30 66.7 164 4 US-10-425-115-243045 Sequence 243045, A
994 30 66.7 179 4 US-10-425-115-255139 Sequence 255139, A
995 30 66.7 187 4 US-10-767-701-56832 Sequence 56832, A
996 30 66.7 199 4 US-10-425-115-304228 Sequence 304228, A
997 30 66.7 202 4 US-10-425-115-213021 Sequence 213021, A
998 30 66.7 209 4 US-10-282-122A-47249 Sequence 47249, A
999 30 66.7 210 4 US-10-425-115-304224 Sequence 304224, A
1000 30 66.7 214 4 US-10-259-165-28 Sequence 28, App1
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## ALIGNMENTS

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RESULT 1
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response Therefrom
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: US/10/800, 023
; PRIOR FILING DATE: 2001-08-09
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: 09/586, 704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381, 528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

Query Match          100.0%; Score 45; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
Db 47 FAFKDLFVV 55

RESULT 2
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021, 949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532, 373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```
Query Match          100.0%; Score 45; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
Db 47 FAFKDLFVV 55
```

```
RESULT 3
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472, 724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

Query Match          100.0%; Score 45; DB 4; Length 172;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
Db 53 FAFKDLFVV 61

RESULT 4
US-10-000-903-21
; Sequence 21, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Chistaine
; APPLICANT: Lombardo-Bencheikh, Angela
```

;; TITLE OF INVENTION: Vaccine  
;; FILE REFERENCE: B45107  
;; CURRENT APPLICATION NUMBER: US/10/000.903  
;; CURRENT FILING DATE: 2001-10-01  
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
;; PRIOR FILING DATE: 1998-08-17  
;; PRIOR APPLICATION NUMBER: GB 9717953.5  
;; PRIOR FILING DATE: 1997-08-22  
;; NUMBER OF SEQ ID NOS: 23  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 21  
;; LENGTH: 278  
;; TYPE: PRT  
;; ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 45; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 2.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 5  
US-10-899-771-21

;; Sequence 21, Application US/10899771  
;; Publication No. US20050031638A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Dalemans, Wilfried L.J.  
;; APPLICANT: Gerard, Catherine Marie Ghislaine  
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
;; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide  
;; FILE REFERENCE: B45124  
;; CURRENT APPLICATION NUMBER: US/10/899.771  
;; CURRENT FILING DATE: 2004-07-27  
;; PRIOR APPLICATION NUMBER: US/09/581.976  
;; PRIOR FILING DATE: 2000-06-20  
;; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
;; PRIOR FILING DATE: 1998-12-18  
;; PRIOR APPLICATION NUMBER: GB 9727262.9  
;; PRIOR FILING DATE: 1997-12-24  
;; NUMBER OF SEQ ID NOS: 28  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 21  
;; LENGTH: 278  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus  
;; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type  
;; OTHER INFORMATION: 18)  
US-10-899-771-21

Query Match 100.0%; Score 45; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 2.1;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 6  
US-10-000-903-23

;; Sequence 23, Application US/10000903  
;; Publication No. US2002018222A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Bruck, Claudine  
;; APPLICANT: Cabezon Silva, Teresa  
;; APPLICANT: Delisse, Anne-Marie Eva Bernarde  
;; APPLICANT: Gerard, Catherine Marie Ghislaine

;; APPLICANT: Lombardo-Bencheikh, Angela  
;; TITLE OF INVENTION: Vaccine  
;; FILE REFERENCE: B45107  
;; CURRENT APPLICATION NUMBER: US/10/000.903  
;; CURRENT FILING DATE: 2001-10-01  
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
;; PRIOR FILING DATE: 1998-08-17  
;; PRIOR APPLICATION NUMBER: GB 9717953.5  
;; PRIOR FILING DATE: 1997-08-22  
;; NUMBER OF SEQ ID NOS: 23  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 23  
;; LENGTH: 383  
;; TYPE: PRT  
;; ORGANISM: Homo sapien  
US-10-000-903-23

Query Match 100.0%; Score 45; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 7  
US-10-899-771-23

;; Sequence 23, Application US/10899771  
;; Publication No. US20050031638A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Dalemans, Wilfried L.J.  
;; APPLICANT: Gerard, Catherine Marie Ghislaine  
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
;; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide  
;; FILE REFERENCE: B45124  
;; CURRENT APPLICATION NUMBER: US/10/899.771  
;; CURRENT FILING DATE: 2004-07-27  
;; PRIOR APPLICATION NUMBER: US/09/581.976  
;; PRIOR FILING DATE: 2000-06-20  
;; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
;; PRIOR FILING DATE: 1998-12-18  
;; PRIOR APPLICATION NUMBER: GB 9727262.9  
;; PRIOR FILING DATE: 1997-12-24  
;; NUMBER OF SEQ ID NOS: 28  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 23  
;; LENGTH: 383  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus  
;; OTHER INFORMATION: Influenzae B and B67 fusion from Human papilloma  
;; OTHER INFORMATION: virus type 18)  
US-10-899-771-23

Query Match 100.0%; Score 45; DB 5; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.9;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
|||  
Db 158 FAFKDLFVV 166

RESULT 8  
US-11-021-949-361

;; Sequence 361, Application US/11021949  
;; Publication No. US20050142541A1  
;; GENERAL INFORMATION:  
;; APPLICANT: LU, PETER  
;; APPLICANT: GARMAN, JONATHAN DAVID  
;; APPLICANT: BELMARES, MICHAEL P.



```
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 361
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-361
```

```
Query Match      86.7%; Score 39; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
Db      47 FAFSDFIV 55
```

```
RESULT 9
US-11-021-949-32
Sequence 32, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 32
LENGTH: 160
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-32
```

```
Query Match      86.7%; Score 39; DB 6; Length 160;
Best Local Similarity 77.8%; Pred. No. 16;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY      1 FAFKDLFV 9
Db      47 FAFSDFIV 55
```

```
RESULT 10
US-10-437-963-122842
Sequence 122842, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbasuk, Brad
APPLICANT: Li, Ping
```

```
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 122842
LENGTH: 1097
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_25734C.1.pep
US-10-437-963-122842
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Query Match      84.4%; Score 38; DB 4; Length 1097;
Best Local Similarity 87.5%; Pred. No. 1,8e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 FAFKDLFV 8
Db      755 FAFKDLFV 762
```

```
RESULT 11
US-11-021-949-30
Sequence 30, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-30
```

```
Query Match      82.2%; Score 37; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 37;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
Db      47 FAFSDFIV 55
```

```
RESULT 12
US-11-021-949-29
Sequence 29, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
```



PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 29  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-29

Query Match 80.0%; Score 36; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 58;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
DB 47 FAFKDLCTV 55

RESULT 13  
US-10-408-765A-2177  
Sequence 2177, Application US/10408765A  
Publication No. US20040101874A1  
GENERAL INFORMATION:  
APPLICANT: Ghosh, Soumitra S.  
APPLICANT: Fahy, Bojin D.  
APPLICANT: Zhang, Bing  
APPLICANT: Gibson, Bradford W.  
APPLICANT: Taylor, Steven W.  
APPLICANT: Glenn, Gary W.  
APPLICANT: Warnock, Dale E.  
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
FILE REFERENCE: 660088.465  
CURRENT APPLICATION NUMBER: US/10/408,765A  
CURRENT FILING DATE: 2003-04-04  
NUMBER OF SEQ ID NOS: 3077  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2177  
LENGTH: 1191  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-408-765A-2177

Query Match 77.8%; Score 35; DB 4; Length 1191;  
Best Local Similarity 77.8%; Pred. No. 7,2e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
DB 106 FAFNDLFV 114

RESULT 14  
US-10-223-074-8  
Sequence 8, Application US/10223074  
Publication No. US20030100094A1  
GENERAL INFORMATION:  
APPLICANT: Helter, Daniel  
APPLICANT: Lunnen, Keith  
APPLICANT: Wilson, Geoffrey  
TITLE OF INVENTION: A Method For Engineering Strand-Specific, Sequence-Specific DNA  
FILE REFERENCE: NEB-178A-PCT  
CURRENT APPLICATION NUMBER: US/10/223,074  
CURRENT FILING DATE: 2002-08-16  
PRIOR APPLICATION NUMBER: US 60/314,386  
PRIOR FILING DATE: 2001-08-23  
NUMBER OF SEQ ID NOS: 82  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 8  
LENGTH: 289  
TYPE: PRT  
ORGANISM: Bacillus lentus

US-10-223-074-8

Query Match 75.6%; Score 34; DB 4; Length 289;  
Best Local Similarity 85.7%; Pred. No. 2,6e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFDLFI 8  
DB 119 AFDLFI 125

RESULT 15  
US-09-815-242-5109  
Sequence 5109, Application US/09815242  
Patent No. US20020061569A1  
GENERAL INFORMATION:  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari L.  
APPLICANT: Zykind, Judith W.  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John D.  
APPLICANT: Carr, Grant J.  
APPLICANT: Yamamoto, Robert T.  
APPLICANT: Xu, H. Howard  
TITLE OF INVENTION: Identification of Essential Genes in  
FILE REFERENCE: ELITRA.011A  
CURRENT APPLICATION NUMBER: US/09/815,242  
CURRENT FILING DATE: 2001-03-21  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
NUMBER OF SEQ ID NOS: 14110  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 5109  
LENGTH: 353  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-815-242-5109

Query Match 75.6%; Score 34; DB 3; Length 353;  
Best Local Similarity 81.8%; Pred. No. 3,2e+02;  
Matches 9; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 1 FAF-KDLFV 9  
DB 302 FAFKDLFV 312

RESULT 16  
US-10-282-122A-43553  
Sequence 43553, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zykind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John

```
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Foreyeth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 43553
LENGTH: 353
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-43553
```

```
Query Match
Best Local Similarity 75.6%; Score 34; DB 4; Length 353;
Matches 9; Conservative 0; Mismatches 0; Indels 2; Gaps 1;
```

```
QY 1 FAF--KDLFFV 9
Db 302 FAFKDLFFV 312
```

```
RESULT 17
US-09-862-027-27
Sequence 27, Application US/09862027
Patent No. US20020142428A1
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
TITLE OF INVENTION: No. US20020142428A1 Kinases and Uses thereof
FILE REFERENCE: 35800/234862
CURRENT APPLICATION NUMBER: US/09/862,027
CURRENT FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: US 09/345,473
PRIOR FILING DATE: 1999-06-30
NUMBER OF SEQ ID NOS: 82
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 27
LENGTH: 669
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-862-027-27
```

```
Query Match
Best Local Similarity 75.6%; Score 34; DB 3; Length 669;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFFV 8
Db 332 FAFKDLFFV 339
```

```
RESULT 18
US-10-989-228-27
Sequence 27, Application US/10989228
Publication No. US20050089917A1
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
TITLE OF INVENTION: Novel Kinases and Uses Thereof
FILE REFERENCE: 35800/234862
CURRENT APPLICATION NUMBER: US/10/989,228
CURRENT FILING DATE: 2004-11-15
PRIOR APPLICATION NUMBER: US/09/862,027
PRIOR FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: US 09/345,473
PRIOR FILING DATE: 1999-06-30
NUMBER OF SEQ ID NOS: 82
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 27
LENGTH: 669
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-10-989-228-27
```

```
Query Match
Best Local Similarity 75.6%; Score 34; DB 5; Length 669;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFFV 8
Db 332 FAFKDLFFV 339
```

```
RESULT 19
US-10-437-963-181984
Sequence 181984, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovacic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 181984
LENGTH: 685
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_79213C.1.pep
US-10-437-963-181984
```

```
Query Match
Best Local Similarity 75.6%; Score 34; DB 4; Length 685;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 FAFKDLFFV 7
Db 338 FAFKDLFFV 344
```

```
RESULT 20
US-10-510-812-54
Sequence 54, Application US/10510812
Publication No. US20050176097A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Rasmussen, Michael Dolberg
; APPLICANT: Jorgensen, Steen Troels
; APPLICANT: Andersen, Jens Tonne
; APPLICANT: Olsen, Peter Bjørke
; TITLE OF INVENTION: Improved Bacillus host cell
; FILE REFERENCE: 10296.204-US
; CURRENT APPLICATION NUMBER: US/10/510,812
; CURRENT FILING DATE: 2004-10-07
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 54
; LENGTH: 874
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-10-510-812-54

Query Match
Best Local Similarity 75.6%; Score 34; DB 5; Length 874;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFVV 9
DB 355 AFKDMYVV 362

RESULT 21
US-10-437-963-173023
; Sequence 173023, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 173023
; LENGTH: 1133
; TYPE: PRT
; ORGANISM: Oryza sativa
; PRATTRE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_71101C.1.pap
US-10-437-963-173023

Query Match
Best Local Similarity 75.6%; Score 34; DB 4; Length 1133;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PAKDLF 7
DB 792 PAKDLF 798

RESULT 22
US-10-712-425-937
; Sequence 937, Application US/10712425
; Publication No. US20040180380A1
; GENERAL INFORMATION:
; APPLICANT: LEE, FRANK D.
; APPLICANT: MENG, XUN
; APPLICANT: LIVINGSTON, DAVID
; TITLE OF INVENTION: PROTEOME EPITOPE TAGS AND METHODS OF USE THEREOF IN PROTEIN
; FILE REFERENCE: MODIFICATION ANALYSIS
; FILE REFERENCE: ENGE-P02-001
```

```

; CURRENT APPLICATION NUMBER: US/10/712,425
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 60/379,626
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/393,137
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,197
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,211
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,223
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,233
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,280
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/430,948
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/433,319
; PRIOR FILING DATE: 2002-12-13
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 937
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Human severe acute respiratory syndrome virus
US-10-712-425-937

Query Match
Best Local Similarity 73.3%; Score 33; DB 4; Length 8;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFVV 9
DB 1 AFRDVFVV 8

RESULT 23
US-10-773-032-937
; Sequence 937, Application US/10773032
; Publication No. US2005006991A1
; GENERAL INFORMATION:
; APPLICANT: LEE, FRANK D.
; APPLICANT: MENG, XUN
; APPLICANT: AFEYAN, NOUBAR B.
; TITLE OF INVENTION: PROTEOME EPITOPE TAGS AND METHODS OF USE THEREOF IN PROTEIN
; FILE REFERENCE: MODIFICATION ANALYSIS
; FILE REFERENCE: ENGE-P03-001
; CURRENT APPLICATION NUMBER: US/10/773,032
; CURRENT FILING DATE: 2004-02-05
; PRIOR APPLICATION NUMBER: 10/712,425
; PRIOR FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: 10/436,549
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,626
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/393,137
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,197
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,211
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,223
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,233
; PRIOR FILING DATE: 2002-07-01
; PRIOR APPLICATION NUMBER: 60/393,280
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/433,319
; PRIOR FILING DATE: 2002-12-13
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 937
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Human severe acute respiratory syndrome virus
US-10-712-425-937
```

Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1385  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 937  
LENGTH: 8  
TYPE: PRT  
ORGANISM: Human severe acute respiratory syndrome virus  
US-10-773-032-937

Query Match 73.3%; Score 33; DB 5; Length 8;  
Best Local Similarity 75.0%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 AFKDLFVV 9  
Db 1 AFRDLFVV 8

RESULT 24

US-09-909-460-103  
Sequence 103, Application US/09909460  
Publication No. US20020182258A1  
GENERAL INFORMATION:  
APPLICANT: Lunsford, Lynn B.  
APPLICANT: Putnam, David  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF NUCLEIC  
ACID  
TITLE OF INVENTION: ACID  
FILE REFERENCE: 08191/014001  
CURRENT APPLICATION NUMBER: US/09/909,460  
CURRENT FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/321,346  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-27  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 103  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Human papilloma virus  
US-09-909-460-103

Query Match 73.3%; Score 33; DB 3; Length 9;  
Best Local Similarity 66.7%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
Db 1 FAFRDLFVV 9

RESULT 25

US-09-872-836-103  
Sequence 103, Application US/09872836  
Publication No. US20040142475A1  
GENERAL INFORMATION:  
APPLICANT: Barman, Shikha P.  
APPLICANT: McKeever, Una  
APPLICANT: Hedley, Mary Lynn  
TITLE OF INVENTION: DELIVERY SYSTEMS FOR BIOACTIVE AGENTS  
FILE REFERENCE: 08191-018001  
CURRENT APPLICATION NUMBER: US/09/872,836  
CURRENT FILING DATE: 2001-06-01  
PRIOR APPLICATION NUMBER: US 60/208,830  
PRIOR FILING DATE: 2000-06-02  
NUMBER OF SEQ ID NOS: 120  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 103  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-872-836-103

Query Match 73.3%; Score 33; DB 3; Length 9;

Best Local Similarity 66.7%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
Db 1 FAFRDLFVV 9

RESULT 26

US-10-128-711-67  
Sequence 67, Application US/10128711  
Publication No. US20030099634A1  
GENERAL INFORMATION:  
APPLICANT: VITTELO, Maria A.  
CHESTNUT, Robert W.  
SETTE, Alessandro D.  
CELIS, Esteban  
GRAY, Howard  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ELICITING  
CTL IMMUNITY  
NUMBER OF SEQUENCES: 153  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend Kourile and Crew  
STREET: Steuart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/128,711  
FILING DATE: 22-Apr-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/197,484  
FILING DATE: 16-FEB-1994  
APPLICATION NUMBER: US 07/935,811  
FILING DATE: 26-AUG-1992  
APPLICATION NUMBER: US 07/874,491  
FILING DATE: 27-APR-1992  
APPLICATION NUMBER: US 07/827,682  
FILING DATE: 29-JAN-1992  
APPLICATION NUMBER: US 07/749,568  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Parmelee, Steven W.  
REGISTRATION NUMBER: 31,990  
REFERENCE/DOCKET NUMBER: 14137-26-4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 467-9600  
TELEFAX: (206) 623-6793  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 67:  
US-10-128-711-67

Query Match 73.3%; Score 33; DB 4; Length 9;  
Best Local Similarity 66.7%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFVV 9  
Db 1 FAFRDLFVV 9

```
RESULT 27
US-10-133-210-281
; Sequence 281, Application US/10133210
; Publication No. US2003010364A1
; GENERAL INFORMATION:
; APPLICANT: Delisi, Charles
; APPLICANT: Berzofsky, Jay
; APPLICANT: Gulukota, Kamalakar
; APPLICANT: Vaccaro, Dennis
; APPLICANT: Wang, Zhiping
; TITLE OF INVENTION: METHODS FOR DESIGNING MOLECULAR CONJUGATES AND
; TITLE OF INVENTION: COMPOSITIONS THEREOF
; FILE REFERENCE: BU-035AX
; CURRENT APPLICATION NUMBER: US/10/133,210
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 281
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 281
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-133-210-281

Query Match          73.3%; Score 33; DB 4; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.7e+06;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 1 FAFRDLCTV 9

RESULT 28
US-10-758-970-103
; Sequence 103, Application US/10758970
; Publication No. US20050037086A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Hsu, Yung-Yueh
; APPLICANT: Tyo, Michael
; TITLE OF INVENTION: CONTINUOUS-FLOW METHOD FOR PREPARING MICROPARTICLES
; FILE REFERENCE: 08191-012001
; CURRENT APPLICATION NUMBER: US/10/758,970
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: US/09/715,708A
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 60/166,516
; PRIOR FILING DATE: 1999-11-19
; NUMBER OF SEQ ID NOS: 109
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 103
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-758-970-103

Query Match          73.3%; Score 33; DB 5; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.7e+06;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 1 FAFRDLCTV 9

RESULT 29
US-10-751-845-57
; Sequence 57, Application US/10751845
; Publication No. US20050100928A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-57

Query Match          73.3%; Score 33; DB 5; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.7e+06;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 1 FAFRDLCTV 9

RESULT 30
US-10-476-570-29
; Sequence 29, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 50-64
US-10-476-570-29

Query Match          73.3%; Score 33; DB 4; Length 15;
Best Local Similarity 66.7%; Pred. No. 18;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFVV 9
DB 3 FAFRDLCTV 11

RESULT 31
US-10-858-384-6
; Sequence 6, Application US/10858384
```

Publication No. US20050033025A1  
GENERAL INFORMATION:  
APPLICANT: CHOPPIN, JEANNINE  
APPLICANT: BOURGAULT VILLADA, ISABELLE  
APPLICANT: GUILLET, JEAN-GERARD  
APPLICANT: CONNAN, FRANCINE  
APPLICANT: FERRIES, ESTELLE  
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN  
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE  
TITLE OF INVENTION: PARTICULARLY IN VACCINATION  
FILE REFERENCE: 0508-1037-1  
CURRENT APPLICATION NUMBER: US/10/858,384  
CURRENT FILING DATE: 2004-06-02  
PRIOR APPLICATION NUMBER: FR 9907012  
PRIOR FILING DATE: 1999-06-03  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: PatentIn Ver. 3.2  
SEQ ID NO 6  
LENGTH: 22  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment  
US-10-858-384-6

Query Match 73.3%; Score 33; DB 5; Length 22;  
Best Local Similarity 66.7%; Pred. No. 27;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 7 FAFRDLCLIV 15

RESULT 32  
US-10-751-845-65  
Sequence 65, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05  
PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 65  
LENGTH: 24  
TYPE: PRT  
ORGANISM: Human Papilloma virus  
US-10-751-845-65

Query Match 73.3%; Score 33; DB 5; Length 24;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 9 FAFRDLCLIV 17

RESULT 33  
US-10-425-115-302315  
Sequence 302315, Application US/10425115

Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 302315  
LENGTH: 62  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_38788C.1.pep  
US-10-425-115-302315

Query Match 73.3%; Score 33; DB 4; Length 62;  
Best Local Similarity 77.8%; Pred. No. 80;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 25 FAFKDLFV 33

RESULT 34  
US-10-424-599-275233  
Sequence 275233, Application US/10424599  
Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 275233  
LENGTH: 81  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_90556C.1.pep  
US-10-424-599-275233

Query Match 73.3%; Score 33; DB 4; Length 81;  
Best Local Similarity 55.6%; Pred. No. 1,1e+02;  
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 9 FAFKDLFV 17

RESULT 35  
US-10-751-845-126  
Sequence 126, Application US/10751845  
Publication No. US20050100928A1  
GENERAL INFORMATION:  
APPLICANT: Hedley, Mary Lynne  
APPLICANT: Urban, Robert G.  
APPLICANT: Chicz, Roman M.  
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
FILE REFERENCE: 08191-013001  
CURRENT APPLICATION NUMBER: US/10/751,845  
CURRENT FILING DATE: 2004-01-05

PRIOR APPLICATION NUMBER: US/09/664,225  
PRIOR FILING DATE: 2000-08-18  
PRIOR APPLICATION NUMBER: US 60/169,846  
PRIOR FILING DATE: 1999-12-09  
PRIOR APPLICATION NUMBER: US 60/154,665  
PRIOR FILING DATE: 1999-09-16  
NUMBER OF SEQ ID NOS: 163  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 126  
LENGTH: 117  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-126

Query Match 73.3%; Score 33; DB 5; Length 117;  
Best Local Similarity 66.7%; Pred. No. 1.6e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
DB 29 FAFRDLCTV 37

RESULT 36  
US-10-425-114-53781  
Sequence 53781, Application US/10425114  
Publication No. US20040034888A1  
GENERAL INFORMATION:  
APPLICANT: Liu, Jindong  
APPLICANT: Zhou, Yihua  
APPLICANT: Kovalic, David K.  
APPLICANT: Screen, Steven E  
APPLICANT: Tabaska, Jack E  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(5313)B  
CURRENT APPLICATION NUMBER: US/10/425,114  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 73128  
SEQ ID NO 53781  
LENGTH: 129  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: UC-ZMFLB73169C12\_FLI.pep  
US-10-425-114-53781

Query Match 73.3%; Score 33; DB 4; Length 129;  
Best Local Similarity 62.5%; Pred. No. 1.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 8  
DB 25 FVFRDLFI 32

RESULT 37  
US-10-425-115-198103  
Sequence 198103, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
TITLE OF INVENTION: Plants  
FILE REFERENCE: 38-21(5322)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 198103  
LENGTH: 129  
TYPE: PRT  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_112249C.1.pep  
US-10-425-115-198103

Query Match 73.3%; Score 33; DB 4; Length 129;  
Best Local Similarity 62.5%; Pred. No. 1.7e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 8  
DB 25 FVFRDLFI 32

RESULT 38  
US-10-177-390-6  
Sequence 6, Application US/10177390  
Publication No. US20030143743A1  
GENERAL INFORMATION:  
APPLICANT: Schuler, Gerold  
APPLICANT: N.V. Antwerp Innovatiecentrum  
TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear  
TITLE OF INVENTION: Polynucleotides by Electroporation  
FILE REFERENCE: 021505wo/JH/ml  
CURRENT APPLICATION NUMBER: US/10/177,390  
CURRENT FILING DATE: 2002-06-20  
NUMBER OF SEQ ID NOS: 34  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 151  
TYPE: PRT  
ORGANISM: Human papillomavirus type 16  
US-10-177-390-6

Query Match 73.3%; Score 33; DB 4; Length 151;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
DB 45 FAFRDLCTV 53

RESULT 39  
US-10-484-063-20  
Sequence 20, Application US/10484063  
Publication No. US20050048467A1  
GENERAL INFORMATION:  
APPLICANT: SASTRY, K. JAGANNADHA  
APPLICANT: TORTOLERO-LUNA, GUILLERMO  
APPLICANT: ROLLEN, MICHELE  
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED  
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN  
FILE REFERENCE: UTSC:560US  
CURRENT APPLICATION NUMBER: US/10/484,063  
CURRENT FILING DATE: 2004-01-16  
PRIOR APPLICATION NUMBER: PCT/US02/23198  
PRIOR FILING DATE: 2002-07-19  
PRIOR APPLICATION NUMBER: 60/306,809  
PRIOR FILING DATE: 2001-07-20  
NUMBER OF SEQ ID NOS: 27  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 20  
LENGTH: 151  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-484-063-20

Query Match 73.3%; Score 33; DB 5; Length 151;

Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 45 FAFRDLCTV 53

RESULT 40

US-10-484-063-27  
; Sequence 27, Application US/10484063  
; Publication No. US20050048467A1  
; GENERAL INFORMATION:  
; APPLICANT: SASTRY, K. JAGANNADHA  
; APPLICANT: TORTOLERO-LUNA, GUILLERMO  
; APPLICANT: FOLLEN, MICHELE  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED  
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN  
; FILE REFERENCE: UTSC:560US  
; CURRENT APPLICATION NUMBER: US/10/484,063  
; PRIOR APPLICATION NUMBER: PCR/US02/23198  
; PRIOR FILING DATE: 2002-07-19  
; PRIOR APPLICATION NUMBER: 60/306,809  
; PRIOR FILING DATE: 2001-07-20  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 27  
; LENGTH: 151  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-484-063-27

Query Match 73.3%; Score 33; DB 5; Length 151;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 45 FAFRDLCTV 53

RESULT 41

US-10-858-384-2  
; Sequence 2, Application US/10858384  
; Publication No. US20050033025A1  
; GENERAL INFORMATION:  
; APPLICANT: CHOPPIN, JEANNINE  
; APPLICANT: BOURGAULT VILLADA, ISABELLE  
; APPLICANT: GUILLET, JEAN-GERARD  
; APPLICANT: CONNAN, FRANCES  
; APPLICANT: FERRIES, ESTELLE  
; TITLE OF INVENTION: POLYPEPTIDE PROTEIN FRAGMENTS OF THE E6 PROTEIN  
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE  
; FILE REFERENCE: 0508-1037-1  
; CURRENT APPLICATION NUMBER: US/10/858,384  
; PRIOR APPLICATION NUMBER: 2004-06-02  
; PRIOR FILING DATE: 1999-06-03  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 2  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Human Papillomavirus  
US-10-858-384-2

Query Match 73.3%; Score 33; DB 5; Length 158;  
Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9

Db 52 FAFRDLCTV 60

RESULT 42

US-10-367-057-16  
; Sequence 16, Application US/10367057  
; Publication No. US20050100554A1  
; GENERAL INFORMATION:  
; APPLICANT: Cuthill, Scott;  
; APPLICANT: Jackson, Amanda;  
; APPLICANT: Lewin, David A.;  
; APPLICANT: Ooi, Chean Eng  
; TITLE OF INVENTION: Complexes and Methods of Using Same  
; FILE REFERENCE: 21402-559  
; CURRENT APPLICATION NUMBER: US/10/367,057  
; PRIOR FILING DATE: 2003-02-14  
; PRIOR APPLICATION NUMBER: 60/256,911  
; PRIOR FILING DATE: 2002-02-14  
; NUMBER OF SEQ ID NOS: 198  
; SOFTWARE: Cnaseqdist version 0.1  
; SEQ ID NO 16  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-367-057-16

Query Match 73.3%; Score 33; DB 5; Length 158;  
Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 52 FAFRDLCTV 60

RESULT 43

US-11-021-949-13  
; Sequence 13, Application US/11021949  
; Publication No. US20050142541A1  
; GENERAL INFORMATION:  
; APPLICANT: LU, PETER  
; APPLICANT: GARMAN, JONATHAN DAVID  
; APPLICANT: BELMARES, MICHAEL P.  
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA  
; APPLICANT: SCHWEITZER, JOHANNES  
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
; TITLE OF INVENTION: AND METHODS OF THEIR USE  
; FILE REFERENCE: VITA-012  
; CURRENT APPLICATION NUMBER: US/11/021,949  
; PRIOR FILING DATE: 2004-12-23  
; PRIOR APPLICATION NUMBER: 60/532,373  
; PRIOR FILING DATE: 2003-12-23  
; NUMBER OF SEQ ID NOS: 361  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: human papilloma virus (HPV)  
US-11-021-949-13

Query Match 73.3%; Score 33; DB 6; Length 158;  
Best Local Similarity 66.7%; Pred. No. 2.1e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLFV 9  
Db 52 FAFRDLCTV 60

RESULT 44  
US-10-472-724-2  
; Sequence 2, Application US/10472724



```
/ Publication No. US20040171806A1
/ GENERAL INFORMATION:
/ APPLICANT: Cid-Arregui, Angel
/ APPLICANT: Zur Hausen, Harald
/ TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
/ FILE REFERENCE: 4121-154
/ CURRENT FILING DATE: 2003-09-17
/ PRIOR APPLICATION NUMBER: PCT/EP02/032271
/ PRIOR FILING DATE: 2002-03-22
/ PRIOR APPLICATION NUMBER: EP 01107271.7
/ PRIOR FILING DATE: 2001-03-23
/ NUMBER OF SEQ ID NOS: 27
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 2
/ LENGTH: 171
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic Construct
US-10-472-724-2
```

```
Query Match      73.3%; Score 33; DB 4; Length 171;
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
      |||:|:|:|
DB      57 FAFRDLCIV 65
```

```
RESULT 45
US-10-751-845-157
/ Sequence 157, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 157
/ LENGTH: 236
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157
```

```
Query Match      73.3%; Score 33; DB 5; Length 236;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
      |||:|:|:|
DB      29 FAFRDLCIV 37
```

```
RESULT 46
US-10-751-845-158
/ Sequence 158, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Roman M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/10/751,845
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 158
/ LENGTH: 237
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158
```

```
Query Match      73.3%; Score 33; DB 5; Length 237;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
      |||:|:|:|
DB      30 FAFRDLCIV 38
```

```
RESULT 47
US-11-072-288-1
/ Sequence 1, Application US/11072288
/ Publication No. US20050159386A1
/ GENERAL INFORMATION:
/ APPLICANT: KIENY, Marie-Paule
/ APPLICANT: BALLOU, Jean-Marc
/ APPLICANT: BIZOUARNE, Nadine
/ TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
/ TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
/ FILE REFERENCE: 017753-122
/ CURRENT FILING DATE: US/11/072,288
/ CURRENT FILING DATE: 2005-03-07
/ PRIOR APPLICATION NUMBER: US/09/462,993
/ PRIOR FILING DATE: 2000-04-17
/ PRIOR APPLICATION NUMBER: PCT/FR98/01576
/ PRIOR FILING DATE: 1998-07-17
/ PRIOR APPLICATION NUMBER: FR 97/09152
/ PRIOR FILING DATE: 1997-07-18
/ NUMBER OF SEQ ID NOS: 23
/ SOFTWARE: PatentIn Ver. 2.2
/ SEQ ID NO 1
/ LENGTH: 243
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Derived from
/ OTHER INFORMATION: human Papillomavirus, strain HPV-16, E6 protein
/ OTHER INFORMATION: fused F protein signals, clone E6+TMF.
US-11-072-288-1
```

```
Query Match      73.3%; Score 33; DB 6; Length 243;
Best Local Similarity 66.7%; Pred. No. 3.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
      |||:~|:~|
DB      80 FAFRDLCIV 88
```

```
RESULT 48
```

```
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

```
Query Match      73.3% Score 33; DB 5; Length 261;
Best Local Similarity 66.7% Pred. No. 3.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1 FAFKDLFV 9
      |||:|:|:|
Db      54 FAFRDLCTV 62
```

```
RESULT 49
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1
```

```
Query Match      73.3% Score 33; DB 3; Length 266;
Best Local Similarity 66.7% Pred. No. 3.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      1 FAFKDLFV 9
      |||:|:|:|
Db      52 FAFRDLCTV 60
```

```
RESULT 50
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Tereza
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4
```

```
Query Match      73.3% Score 33; DB 4; Length 273;
Best Local Similarity 66.7% Pred. No. 3.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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Oy      1 FAFKDLFV 9
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Db      158 FAFRDLCTV 166
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Search completed: May 5, 2006, 08:50:23
Job time : 67.3 secs
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds  
(without alignments)  
49.591 Million cell updates/sec

Title: US-08-170-344-27  
Perfect score: 45  
Sequence: 1 PAFKDLFVY 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_New:\*  
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2: /SIDSS/ptodata/1/pubppaa/US06\_NEW\_PUB.pep:\*  
3: /SIDSS/ptodata/1/pubppaa/US07\_NEW\_PUB.pep:\*  
4: /SIDSS/ptodata/1/pubppaa/US08\_NEW\_PUB.pep:\*  
5: /SIDSS/ptodata/1/pubppaa/PCT\_NEW\_PUB.pep:\*  
6: /SIDSS/ptodata/1/pubppaa/US09\_NEW\_PUB.pep:\*  
7: /SIDSS/ptodata/1/pubppaa/US10\_NEW\_PUB.pep1:\*  
8: /SIDSS/ptodata/1/pubppaa/US10\_NEW\_PUB.pep1:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	45	100.0	10	9	US-10-530-061-519	Sequence 519, App
2	45	100.0	15	9	US-10-530-061-1660	Sequence 1660, App
3	45	100.0	15	9	US-10-530-061-1661	Sequence 1661, App
4	45	100.0	158	9	US-10-530-253-15	Sequence 15, Appl
5	41	91.1	10	9	US-10-530-061-518	Sequence 518, App
6	39	86.7	9	9	US-10-530-061-809	Sequence 809, App
7	39	86.7	10	9	US-10-530-061-521	Sequence 521, App
8	39	86.7	160	9	US-10-530-253-25	Sequence 25, Appl
9	37	82.2	10	9	US-10-530-061-791	Sequence 791, App
10	37	82.2	10	9	US-10-530-061-849	Sequence 849, App
11	37	82.2	158	9	US-10-530-253-19	Sequence 19, Appl
12	36	80.0	9	9	US-10-530-061-82	Sequence 82, App
13	36	80.0	9	9	US-10-530-061-808	Sequence 808, App
14	36	80.0	158	9	US-10-530-253-20	Sequence 20, Appl
15	36	80.0	389	11	US-11-188-298-6659	Sequence 6659, App
16	34	75.6	874	9	US-10-510-386-28	Sequence 28, Appl
17	34	75.6	1047	9	US-10-510-386-200	Sequence 200, App
18	33	73.3	151	9	US-10-530-253-13	Sequence 13, Appl
19	33	73.3	158	11	US-11-206-138-3	Sequence 3, Appl
20	33	73.3	248	11	US-10-530-253-1	Sequence 1, Appl
21	33	73.3	248	9	US-10-530-253-3	Sequence 3, Appl

22	33	73.3	248	9	US-10-530-253-5	Sequence 5, Appl
23	33	73.3	248	9	US-10-530-253-7	Sequence 7, Appl
24	33	73.3	248	9	US-10-530-253-9	Sequence 9, Appl
25	33	73.3	248	9	US-10-530-253-11	Sequence 11, Appl
26	33	73.3	256	11	US-11-192-923A-2	Sequence 2, Appl
27	32	71.1	10	9	US-10-530-061-520	Sequence 520, App
28	32	71.1	11	9	US-10-530-061-784	Sequence 784, App
29	32	71.1	114	9	US-10-467-657-9012	Sequence 9012, App
30	32	71.1	158	9	US-10-530-253-26	Sequence 26, Appl
31	32	71.1	262	11	US-11-087-099-1167	Sequence 1167, App
32	32	71.1	262	11	US-11-188-298-1192	Sequence 1192, App
33	32	71.1	286	11	US-11-096-568A-11908	Sequence 11908, A
34	32	71.1	299	11	US-11-096-568A-11907	Sequence 11907, A
35	32	71.1	313	11	US-11-096-568A-11906	Sequence 11906, A
36	32	71.1	318	11	US-11-188-298-2203	Sequence 2203, A
37	32	71.1	331	11	US-11-087-099-2407	Sequence 2407, App
38	32	71.1	331	11	US-11-188-298-13365	Sequence 13365, A
39	32	71.1	331	11	US-11-188-298-14389	Sequence 14389, A
40	32	71.1	331	11	US-11-188-298-14389	Sequence 14389, A
41	32	71.1	338	11	US-11-096-568A-25998	Sequence 25998, A
42	32	71.1	380	11	US-11-188-298-1366	Sequence 1366, App
43	32	71.1	380	11	US-11-188-298-12542	Sequence 12542, App
44	32	71.1	380	11	US-11-188-298-12411	Sequence 12411, App
45	32	71.1	380	11	US-11-188-298-15294	Sequence 15294, A
46	32	71.1	380	11	US-11-188-298-15294	Sequence 15294, A
47	32	71.1	380	11	US-11-188-298-17186	Sequence 17186, A
48	32	71.1	380	11	US-11-188-298-18206	Sequence 18206, A
49	32	71.1	380	11	US-11-188-298-18206	Sequence 18206, A
50	32	71.1	381	11	US-11-188-298-18203	Sequence 18203, A
51	32	71.1	381	11	US-11-188-298-1807	Sequence 1807, App
52	32	71.1	382	11	US-11-188-298-1807	Sequence 1807, App
53	32	71.1	382	11	US-11-188-298-12630	Sequence 12630, A
54	32	71.1	382	11	US-11-188-298-17995	Sequence 17995, A
55	32	71.1	386	11	US-11-087-099-9572	Sequence 9572, App
56	32	71.1	386	11	US-11-188-298-1280	Sequence 1280, App
57	32	71.1	386	11	US-11-188-298-4435	Sequence 4435, App
58	32	71.1	386	11	US-11-188-298-9727	Sequence 9727, App
59	32	71.1	386	11	US-11-188-298-18464	Sequence 18464, A
60	32	71.1	387	11	US-11-188-298-18464	Sequence 18464, A
61	32	71.1	387	11	US-11-188-298-1117	Sequence 1117, App
62	32	71.1	387	11	US-11-188-298-6116	Sequence 6116, App
63	32	71.1	387	11	US-11-188-298-10906	Sequence 10906, A
64	32	71.1	387	11	US-11-188-298-14654	Sequence 14654, A
65	32	71.1	387	11	US-11-188-298-14654	Sequence 14654, A
66	32	71.1	387	11	US-11-188-298-16686	Sequence 16686, A
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68	32	71.1	387	11	US-11-188-298-18097	Sequence 18097, A
69	32	71.1	387	11	US-11-188-298-18549	Sequence 18549, A
70	32	71.1	387	11	US-11-188-298-20366	Sequence 20366, A
71	32	71.1	388	11	US-11-087-099-1101	Sequence 1101, App
72	32	71.1	388	11	US-11-188-298-835	Sequence 385, App
73	32	71.1	388	11	US-11-188-298-9331	Sequence 9331, App
74	32	71.1	388	11	US-11-188-298-11045	Sequence 11045, A
75	32	71.1	388	11	US-11-188-298-738	Sequence 738, App
76	32	71.1	389	11	US-11-188-298-3946	Sequence 3946, App
77	32	71.1	389	11	US-11-188-298-7412	Sequence 7412, App
78	32	71.1	389	11	US-11-188-298-20504	Sequence 20504, A
79	32	71.1	389	11	US-11-188-298-972	Sequence 972, App
80	32	71.1	393	11	US-11-188-298-25996	Sequence 25996, A
81	32	71.1	412	11	US-11-096-568A-25996	Sequence 25996, A
82	32	71.1	465	11	US-11-188-298-1017	Sequence 1017, App
83	32	71.1	215	11	US-11-113-44-53	Sequence 53, Appl
84	31	68.9	10	9	US-10-530-061-478	Sequence 478, App
85	31	68.9	15	9	US-10-530-061-1674	Sequence 1674, App
86	31	68.9	15	9	US-10-530-061-1675	Sequence 1675, App
87	31	68.9	15	9	US-10-530-061-1676	Sequence 1676, App
88	31	68.9	149	9	US-10-530-253-17	Sequence 17, Appl
89	31	68.9	152	9	US-10-530-253-39	Sequence 39, Appl
90	31	68.9	204	11	US-11-079-463-10366	Sequence 10366, A
91	31	68.9	300	11	US-11-188-298-4053	Sequence 4053, App
92	31	68.9	302	11	US-11-188-298-8762	Sequence 8762, App
93	31	68.9	305	11	US-11-087-099-9416	Sequence 9416, App
94	31	68.9	305	11	US-11-087-099-11840	Sequence 11840, A

95	31	68.9	305	11	US-11-188-298-10384	Sequence 10384, A	168	28	62.2	322	11	US-11-188-298-8889	Sequence 8889, Ap
96	31	68.9	305	11	US-11-188-298-19746	Sequence 19746, A	169	28	62.2	333	9	US-10-878-5564-174	Sequence 174, Ap
97	31	68.9	305	11	US-11-188-298-22005	Sequence 22005, A	170	28	62.2	333	11	US-11-252-663-2	Sequence 2, Ap
98	31	68.9	306	11	US-11-188-298-11334	Sequence 11324, A	171	28	62.2	350	11	US-11-079-463-7480	Sequence 7480, Ap
99	31	68.9	308	11	US-11-188-298-20591	Sequence 20591, A	172	28	62.2	377	11	US-11-188-298-819	Sequence 819, Ap
100	31	68.9	310	11	US-11-087-099-7863	Sequence 7863, Ap	173	28	62.2	378	11	US-11-188-298-12208	Sequence 12208, A
101	31	68.9	312	11	US-11-188-298-18297	Sequence 18297, A	174	28	62.2	382	11	US-11-096-5688-28693	Sequence 28693, A
102	31	68.9	320	11	US-11-188-298-5439	Sequence 5439, Ap	175	28	62.2	401	11	US-11-096-5688-28693	Sequence 28693, A
103	31	68.9	403	11	US-11-045-004-2797	Sequence 2797, Ap	176	28	62.2	420	11	US-11-096-5688-30048	Sequence 30048, A
104	31	68.9	536	9	US-10-063-703-24	Sequence 24, Ap	177	28	62.2	436	11	US-11-096-5688-28690	Sequence 28690, A
105	31	68.9	556	9	US-10-194-487-136	Sequence 136, Ap	178	28	62.2	437	11	US-11-079-463-9024	Sequence 9024, Ap
106	31	68.9	556	9	US-10-195-883-136	Sequence 136, Ap	179	28	62.2	440	9	US-10-703-7998-268	Sequence 268, Ap
107	31	68.9	556	9	US-10-195-888-136	Sequence 136, Ap	180	28	62.2	450	11	US-11-096-5688-30047	Sequence 30047, A
108	31	68.9	556	9	US-10-195-889-136	Sequence 136, Ap	181	28	62.2	463	11	US-11-188-298-12381	Sequence 12381, A
109	31	68.9	556	11	US-11-102-240-24	Sequence 24, Ap	182	28	62.2	465	11	US-11-096-5688-28689	Sequence 28689, A
110	31	68.9	556	11	US-11-103-195-24	Sequence 24, Ap	183	28	62.2	470	11	US-11-188-298-22302	Sequence 22302, A
111	30	66.7	9	9	US-10-530-061-821	Sequence 821, Ap	184	28	62.2	475	11	US-11-096-5688-30046	Sequence 30046, A
112	30	66.7	10	9	US-10-530-061-477	Sequence 477, Ap	185	28	62.2	480	9	US-10-915-002-299	Sequence 299, Ap
113	30	66.7	15	9	US-10-530-061-566	Sequence 566, Ap	186	28	62.2	483	9	US-10-467-657-2774	Sequence 2774, Ap
114	30	66.7	15	9	US-10-530-061-1668	Sequence 1668, Ap	187	28	62.2	490	11	US-11-096-5688-7658	Sequence 7658, Ap
115	30	66.7	15	9	US-10-530-061-1669	Sequence 1669, Ap	188	28	62.2	491	11	US-11-096-5688-28688	Sequence 28688, A
116	30	66.7	15	9	US-10-530-061-1670	Sequence 1670, Ap	189	28	62.2	494	11	US-11-096-5688-28692	Sequence 28692, A
117	30	66.7	149	9	US-10-530-253-16	Sequence 16, Ap	190	28	62.2	535	11	US-11-188-298-294	Sequence 294, Ap
118	30	66.7	196	11	US-11-188-298-21678	Sequence 21678, A	191	28	62.2	533	11	US-11-188-298-17096	Sequence 17096, A
119	30	66.7	202	11	US-11-096-5688-5503	Sequence 5503, Ap	192	28	62.2	558	7	US-09-934-948-8	Sequence 8, Ap
120	30	66.7	329	11	US-11-072-512-3318	Sequence 19522, A	193	28	62.2	590	11	US-11-188-298-8744	Sequence 8744, Ap
121	30	66.7	340	11	US-11-072-512-3318	Sequence 3319, Ap	194	28	62.2	592	11	US-11-072-512-3371	Sequence 3371, Ap
122	30	66.7	351	11	US-11-096-5688-19521	Sequence 19521, A	195	28	62.2	626	7	US-09-934-948-4	Sequence 4, Ap
123	30	66.7	380	11	US-11-096-5688-19520	Sequence 19520, A	196	28	62.2	639	9	US-10-821-234-907	Sequence 907, Ap
124	30	66.7	386	11	US-11-087-099-4397	Sequence 4397, Ap	197	28	62.2	660	11	US-11-186-284-125	Sequence 125, Ap
125	30	66.7	425	11	US-11-096-5688-32624	Sequence 32624, A	198	28	62.2	681	11	US-11-188-298-5877	Sequence 5877, Ap
126	30	66.7	435	11	US-11-096-5688-32623	Sequence 32623, A	199	28	62.2	708	9	US-10-821-234-917	Sequence 917, Ap
127	30	66.7	444	11	US-11-045-004-846	Sequence 846, Ap	200	28	62.2	723	7	US-09-934-948-2	Sequence 2, Ap
128	30	66.7	490	11	US-11-096-5688-19365	Sequence 19365, A	201	28	62.2	723	7	US-09-934-948-6	Sequence 6, Ap
129	30	66.7	551	11	US-11-188-298-2614	Sequence 2614, Ap	202	28	62.2	746	9	US-10-793-626-652	Sequence 652, Ap
130	30	66.7	554	11	US-11-096-5688-19364	Sequence 19364, A	203	28	62.2	759	11	US-11-072-512-2764	Sequence 2764, Ap
131	30	66.7	779	11	US-11-242-730-8	Sequence 8, Ap	204	28	62.2	2376	11	US-11-188-298-9871	Sequence 9871, Ap
132	30	66.7	779	11	US-11-242-730-9	Sequence 9, Ap	205	27	60.0	9	9	US-10-530-061-91	Sequence 91, Ap
133	30	66.7	950	11	US-10-467-657-854	Sequence 854, Ap	206	27	60.0	9	9	US-10-530-061-800	Sequence 800, Ap
134	29	64.4	11	9	US-10-530-061-780	Sequence 780, Ap	207	27	60.0	9	9	US-10-530-061-820	Sequence 820, Ap
135	29	64.4	62	11	US-11-079-463-12045	Sequence 10325, A	208	27	60.0	10	9	US-10-530-061-500	Sequence 500, Ap
136	29	64.4	69	11	US-11-079-463-7268	Sequence 7268, A	209	27	60.0	40	9	US-10-467-657-7458	Sequence 7458, Ap
137	29	64.4	273	9	US-10-353-783-53	Sequence 53, Ap	210	27	60.0	49	11	US-11-264-096-687	Sequence 687, Ap
138	29	64.4	348	11	US-11-221-263-22	Sequence 22, Ap	211	27	60.0	70	11	US-11-000-463-383	Sequence 383, Ap
139	29	64.4	393	11	US-11-221-263-26	Sequence 26, Ap	212	27	60.0	70	11	US-11-000-463-855	Sequence 855, Ap
140	29	64.4	420	11	US-11-146-428-96	Sequence 96, Ap	213	27	60.0	82	9	US-10-475-073-797	Sequence 797, Ap
141	29	64.4	428	11	US-11-221-263-24	Sequence 24, Ap	214	27	60.0	93	11	US-11-004-339-1770	Sequence 1770, Ap
142	29	64.4	490	11	US-11-045-004-1929	Sequence 1929, Ap	215	27	60.0	112	11	US-11-188-298-20201	Sequence 20201, A
143	29	64.4	517	11	US-11-116-881A-370	Sequence 370, Ap	216	27	60.0	126	9	US-10-793-626-180	Sequence 180, Ap
144	29	64.4	548	11	US-11-221-263-20	Sequence 20, Ap	217	27	60.0	146	9	US-10-467-657-1656	Sequence 1656, Ap
145	29	64.4	557	11	US-10-512-109-9	Sequence 9, Ap	218	27	60.0	153	11	US-11-096-5688-18312	Sequence 18312, A
146	29	64.4	569	11	US-11-079-463-8795	Sequence 8795, Ap	219	27	60.0	160	11	US-11-188-298-2842	Sequence 2842, Ap
147	29	64.4	841	9	US-10-501-035-305	Sequence 305, Ap	220	27	60.0	162	11	US-11-229-769-160	Sequence 160, Ap
148	29	64.4	1827	11	US-11-057-058-62	Sequence 62, Ap	221	27	60.0	163	11	US-11-188-298-1891	Sequence 1891, Ap
149	29	64.4	1857	11	US-11-057-058-60	Sequence 60, Ap	222	27	60.0	171	9	US-10-467-657-8576	Sequence 8576, Ap
150	29	64.4	1857	11	US-11-057-058-61	Sequence 61, Ap	223	27	60.0	177	9	US-10-467-657-1658	Sequence 1658, Ap
151	28.5	63.3	343	11	US-11-079-463-9434	Sequence 9434, Ap	224	27	60.0	188	9	US-10-467-657-9141	Sequence 9141, Ap
152	28	62.2	63	11	US-11-079-463-5867	Sequence 5867, Ap	225	27	60.0	205	11	US-11-079-463-6262	Sequence 6262, Ap
153	28	62.2	110	11	US-11-188-298-17479	Sequence 17479, A	226	27	60.0	207	11	US-11-229-769-320	Sequence 320, Ap
154	28	62.2	114	11	US-11-072-512-3819	Sequence 3819, Ap	227	27	60.0	212	11	US-11-196-475-34	Sequence 34, Ap
155	28	62.2	174	11	US-11-188-298-10713	Sequence 10713, A	228	27	60.0	216	11	US-11-072-512-3064	Sequence 3064, Ap
156	28	62.2	254	11	US-11-098-686-10210	Sequence 10210, A	229	27	60.0	220	11	US-11-188-298-9254	Sequence 9254, Ap
157	28	62.2	254	11	US-11-079-463-6539	Sequence 6539, Ap	230	27	60.0	227	11	US-11-188-298-15156	Sequence 15156, A
158	28	62.2	258	9	US-10-204-639-5	Sequence 5, Ap	231	27	60.0	228	11	US-11-188-298-22426	Sequence 22426, A
159	28	62.2	265	11	US-11-188-298-13057	Sequence 13057, A	232	27	60.0	234	9	US-10-506-454-519	Sequence 519, Ap
160	28	62.2	296	11	US-11-079-463-6164	Sequence 6164, Ap	233	27	60.0	237	11	US-11-188-298-15774	Sequence 15774, A
161	28	62.2	305	11	US-11-101-095-68	Sequence 68, Ap	234	27	60.0	245	9	US-10-467-657-2666	Sequence 2666, Ap
162	28	62.2	306	11	US-11-101-095-69	Sequence 69, Ap	235	27	60.0	248	11	US-11-079-463-5537	Sequence 5537, Ap
163	28	62.2	311	11	US-11-188-298-10635	Sequence 10635, A	236	27	60.0	257	11	US-11-045-004-2275	Sequence 2275, Ap
164	28	62.2	313	11	US-11-188-298-18760	Sequence 18760, A	237	27	60.0	260	11	US-11-188-298-5013	Sequence 5013, Ap
165	28	62.2	315	11	US-11-087-099-8598	Sequence 8598, Ap	238	27	60.0	268	11	US-11-096-5688-19335	Sequence 19335, A
166	28	62.2	315	11	US-11-188-298-18999	Sequence 18999, A	239	27	60.0	268	11	US-11-079-463-8304	Sequence 8304, Ap
167	28	62.2	322	11	US-11-188-298-13552	Sequence 1352, Ap	240	27	60.0	271	9	US-10-353-783-52	Sequence 52, Ap

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242	27	60.0	303	11	US-11-188-298-17765	Sequence 17765, A	315	27	60.0	424	11	US-11-228-923-98	Sequence 98, Appl
243	27	60.0	304	11	US-11-087-099-5138	Sequence 5138, Ap	316	27	60.0	424	11	US-11-228-923-110	Sequence 110, Appl
244	27	60.0	304	11	US-11-188-298-2640	Sequence 2640, Ap	317	27	60.0	424	11	US-11-228-923-117	Sequence 117, App
245	27	60.0	304	11	US-11-188-298-4700	Sequence 4700, Ap	318	27	60.0	424	11	US-11-228-923-119	Sequence 119, App
246	27	60.0	305	11	US-11-087-099-2948	Sequence 2948, Ap	319	27	60.0	424	11	US-11-228-923-125	Sequence 125, App
247	27	60.0	305	11	US-11-188-298-12899	Sequence 12899, A	320	27	60.0	424	11	US-11-228-875-98	Sequence 98, Appl
248	27	60.0	305	11	US-11-188-298-13825	Sequence 13825, A	321	27	60.0	424	11	US-11-228-875-110	Sequence 110, App
249	27	60.0	305	11	US-11-188-298-13078	Sequence 21078, A	322	27	60.0	424	11	US-11-228-875-119	Sequence 119, App
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251	27	60.0	307	11	US-11-188-298-10666	Sequence 10666, A	324	27	60.0	424	11	US-11-196-475-166	Sequence 166, App
252	27	60.0	307	11	US-11-188-298-15503	Sequence 15503, A	325	27	60.0	445	11	US-11-196-475-166	Sequence 20425, A
253	27	60.0	308	11	US-11-188-298-7065	Sequence 7065, Ap	326	27	60.0	445	11	US-11-188-298-10425	Sequence 1180, A
254	27	60.0	309	11	US-11-188-298-15916	Sequence 15916, A	327	27	60.0	448	11	US-11-188-298-1180	Sequence 20441, A
255	27	60.0	316	11	US-11-229-371-129	Sequence 2, Appl1	328	27	60.0	453	11	US-11-188-298-12041	Sequence 127, App
256	27	60.0	316	11	US-11-228-923-129	Sequence 129, App	329	27	60.0	459	11	US-11-229-371-127	Sequence 127, App
257	27	60.0	316	11	US-11-228-875-129	Sequence 129, App	330	27	60.0	459	11	US-11-228-923-127	Sequence 127, App
258	27	60.0	318	11	US-11-188-298-10814	Sequence 10814, A	331	27	60.0	459	11	US-11-228-875-127	Sequence 12459, A
259	27	60.0	318	11	US-11-188-298-1017	Sequence 21017, A	332	27	60.0	464	11	US-11-188-298-12459	Sequence 10997, A
260	27	60.0	320	11	US-11-188-298-17923	Sequence 17923, A	333	27	60.0	467	11	US-11-188-298-10997	Sequence 11280, A
261	27	60.0	322	11	US-11-188-298-11410	Sequence 11410, A	334	27	60.0	467	11	US-11-188-298-11280	Sequence 18569, A
262	27	60.0	329	11	US-11-229-371-121	Sequence 121, App	335	27	60.0	467	11	US-11-188-298-18569	Sequence 22338, A
263	27	60.0	329	11	US-11-228-923-121	Sequence 121, App	336	27	60.0	469	11	US-11-188-298-18563	Sequence 18653, A
264	27	60.0	329	11	US-11-228-875-121	Sequence 121, App	337	27	60.0	473	11	US-11-188-298-2862	Sequence 2862, Ap
265	27	60.0	339	11	US-11-188-298-13813	Sequence 13813, A	338	27	60.0	473	11	US-11-188-298-4017	Sequence 4017, Ap
266	27	60.0	347	11	US-11-087-099-8588	Sequence 8588, Ap	339	27	60.0	473	11	US-11-188-298-8607	Sequence 8607, Ap
267	27	60.0	347	11	US-11-188-298-16721	Sequence 16721, A	340	27	60.0	473	11	US-11-188-298-12841	Sequence 9070, Ap
268	27	60.0	348	11	US-11-188-298-16721	Sequence 20726, A	341	27	60.0	473	11	US-11-188-298-19230	Sequence 10299, A
269	27	60.0	349	11	US-11-188-298-16878	Sequence 16878, A	342	27	60.0	473	11	US-11-188-298-10299	Sequence 14047, A
270	27	60.0	359	11	US-11-087-099-4506	Sequence 8, Appl1	343	27	60.0	473	11	US-11-188-298-14047	Sequence 15327, A
271	27	60.0	359	11	US-11-087-099-4506	Sequence 6, Appl1	344	27	60.0	473	11	US-11-188-298-14327	Sequence 15797, A
272	27	60.0	360	9	US-10-467-657-5376	Sequence 5376, Ap	345	27	60.0	473	11	US-11-188-298-15797	Sequence 17623, A
273	27	60.0	360	11	US-11-087-099-8275	Sequence 714, App	346	27	60.0	473	11	US-11-188-298-17623	Sequence 20126, A
274	27	60.0	369	11	US-11-188-298-714	Sequence 5459, Ap	347	27	60.0	473	11	US-11-188-298-20126	Sequence 14130, A
275	27	60.0	369	11	US-11-188-298-5459	Sequence 10432, A	348	27	60.0	473	11	US-11-188-298-22186	Sequence 22186, A
276	27	60.0	369	11	US-11-188-298-10432	Sequence 10432, A	349	27	60.0	474	11	US-11-188-298-2178	Sequence 2178, Ap
277	27	60.0	369	11	US-11-188-298-16415	Sequence 16415, A	350	27	60.0	474	11	US-11-188-298-17747	Sequence 17747, A
278	27	60.0	369	11	US-11-188-298-16484	Sequence 16484, A	351	27	60.0	477	11	US-11-188-298-19230	Sequence 19230, A
279	27	60.0	369	11	US-11-188-298-19492	Sequence 19492, A	352	27	60.0	477	11	US-11-188-298-16977	Sequence 16977, A
280	27	60.0	369	11	US-11-188-298-19804	Sequence 19804, A	353	27	60.0	482	11	US-11-188-298-15937	Sequence 25215, A
281	27	60.0	370	11	US-11-079-463-8492	Sequence 8492, Ap	354	27	60.0	492	9	US-10-216-161A-7	Sequence 7, Appl1
282	27	60.0	370	11	US-11-188-298-4681	Sequence 4681, Ap	355	27	60.0	496	11	US-11-096-568A-25215	Sequence 25215, A
283	27	60.0	370	11	US-11-188-298-5711	Sequence 5711, Ap	356	27	60.0	500	11	US-11-225-903-15	Sequence 15, Appl
284	27	60.0	370	11	US-11-188-298-8995	Sequence 8995, Ap	357	27	60.0	503	11	US-11-087-099-11726	Sequence 11726, A
285	27	60.0	370	11	US-11-188-298-9711	Sequence 9711, Ap	358	27	60.0	513	11	US-11-087-099-11726	Sequence 25214, A
286	27	60.0	370	11	US-11-188-298-13362	Sequence 13362, A	359	27	60.0	526	11	US-11-096-568A-25214	Sequence 17639, A
287	27	60.0	370	11	US-11-188-298-17120	Sequence 20348, A	360	27	60.0	527	11	US-11-188-298-17639	Sequence 25213, A
288	27	60.0	370	11	US-11-188-298-20348	Sequence 20348, A	361	27	60.0	545	11	US-11-096-568A-25213	Sequence 6074, Ap
289	27	60.0	371	11	US-11-188-298-498	Sequence 498, App	362	27	60.0	554	11	US-11-188-298-11921	Sequence 11921, A
290	27	60.0	371	11	US-11-188-298-18397	Sequence 18397, A	363	27	60.0	554	11	US-11-079-463-5760	Sequence 5760, Ap
291	27	60.0	372	11	US-11-188-298-4185	Sequence 4185, Ap	364	27	60.0	562	11	US-11-188-298-8761	Sequence 8761, Ap
292	27	60.0	372	11	US-11-188-298-5199	Sequence 5199, Ap	365	27	60.0	577	11	US-11-188-298-15593	Sequence 15593, A
293	27	60.0	373	11	US-11-188-298-20794	Sequence 20794, A	366	27	60.0	581	9	US-10-763-712A-28	Sequence 28, Appl
294	27	60.0	375	11	US-11-188-298-358	Sequence 358, App	367	27	60.0	626	11	US-11-188-298-22376	Sequence 92, Appl
295	27	60.0	375	11	US-11-188-298-2021	Sequence 2021, Ap	368	27	60.0	631	11	US-11-079-463-7768	Sequence 7768, Ap
296	27	60.0	376	11	US-11-188-298-2629	Sequence 2629, Ap	369	27	60.0	654	11	US-11-188-298-19314	Sequence 19314, A
297	27	60.0	378	11	US-11-172-740-1335	Sequence 1335, Ap	370	27	60.0	663	11	US-11-188-298-4548	Sequence 5458, Ap
298	27	60.0	381	8	US-10-511-937-2513	Sequence 2513, Ap	371	27	60.0	718	11	US-11-111-664-4	Sequence 4, Appl1
299	27	60.0	381	9	US-10-784-004-391	Sequence 391, App	372	27	60.0	774	11	US-11-096-568A-33912	Sequence 33912, A
300	27	60.0	384	11	US-11-188-298-8063	Sequence 8063, Ap	373	27	60.0	787	11	US-11-096-568A-33911	Sequence 33911, A
301	27	60.0	389	11	US-11-188-298-10495	Sequence 10495, A	374	27	60.0	833	9	US-10-537-971-2	Sequence 33911, A
302	27	60.0	393	11	US-11-188-298-8828	Sequence 8828, Ap	375	27	60.0	902	11	US-11-057-058-64	Sequence 64, Appl
303	27	60.0	397	9	US-10-467-657-2684	Sequence 2684, Ap	376	27	60.0	1046	9	US-10-392-234A-16	Sequence 16, Appl
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305	27	60.0	403	11	US-11-192-450-4	Sequence 11064, A	378	27	60.0	1159	11	US-11-194-246-439	Sequence 439, App
306	27	60.0	404	11	US-11-087-227-6	Sequence 4, Appl1	379	27	60.0				
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311	27	60.0	424	11	US-11-229-371-110	Sequence 110, App	384	27	60.0				
312	27	60.0	424	11	US-11-229-371-117	Sequence 117, App	385	27	60.0				
313	27	60.0	424	11	US-11-229-371-119	Sequence 119, App	386	27	60.0				

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388	27	60.0	4443	11	US-11-129-741-3478	Sequence 3478, Ap	461	26	57.8	341	11	US-11-116-881A-478	Sequence 478, App
389	27	60.0	4473	9	US-10-895-064-460	Sequence 460, App	462	26	57.8	345	11	US-11-096-568A-28393	Sequence 28393, A
390	27	60.0	4473	11	US-11-129-741-460	Sequence 460, App	463	26	57.8	345	11	US-11-079-463-6230	Sequence 6230, Ap
391	26	57.8	23	11	US-11-152-366-235	Sequence 235, App	464	26	57.8	348	11	US-11-087-099-1162	Sequence 1162, Ap
392	26	57.8	23	11	US-11-166-412-87	Sequence 87, App1	465	26	57.8	348	11	US-11-188-298-10154	Sequence 10154, A
393	26	57.8	68	9	US-10-467-657-6568	Sequence 6568, Ap	466	26	57.8	348	11	US-11-188-298-17115	Sequence 17115, A
394	26	57.8	97	11	US-11-079-463-9153	Sequence 9153, Ap	467	26	57.8	349	11	US-11-165-024-2	Sequence 2, App1
395	26	57.8	103	9	US-10-467-657-9199	Sequence 9199, Ap	468	26	57.8	349	11	US-11-152-366-40	Sequence 40, App1
396	26	57.8	109	11	US-11-079-463-5400	Sequence 5400, Ap	469	26	57.8	349	11	US-11-096-568A-28392	Sequence 28392, A
397	26	57.8	135	11	US-11-096-568A-5601	Sequence 5601, Ap	470	26	57.8	359	11	US-11-045-004-232	Sequence 232, App
398	26	57.8	136	9	US-10-485-517-261	Sequence 261, App	471	26	57.8	361	11	US-11-166-412-56	Sequence 56, App1
399	26	57.8	154	11	US-11-079-463-8991	Sequence 8991, Ap	472	26	57.8	361	11	US-11-033-030-43	Sequence 43, App1
400	26	57.8	159	11	US-11-087-099-1918	Sequence 1918, Ap	473	26	57.8	362	11	US-11-033-030-42	Sequence 42, App1
401	26	57.8	162	11	US-11-087-099-4132	Sequence 4132, Ap	474	26	57.8	372	9	US-10-517-939-22	Sequence 22, App1
402	26	57.8	169	9	US-10-453-372-838	Sequence 838, App	475	26	57.8	373	11	US-11-087-099-6167	Sequence 6167, Ap
403	26	57.8	175	9	US-10-965-694-23	Sequence 23, App1	476	26	57.8	379	11	US-11-045-004-2049	Sequence 2049, Ap
404	26	57.8	181	9	US-10-453-372-846	Sequence 846, App	477	26	57.8	380	11	US-11-079-463-5928	Sequence 5928, Ap
405	26	57.8	204	9	US-11-096-568A-5600	Sequence 5600, Ap	478	26	57.8	385	11	US-11-096-568A-27889	Sequence 27889, A
406	26	57.8	204	9	US-10-793-626-1544	Sequence 1544, Ap	479	26	57.8	391	11	US-11-079-463-7568	Sequence 7568, Ap
407	26	57.8	204	11	US-11-096-568A-23094	Sequence 23094, A	480	26	57.8	392	9	US-10-194-487-160	Sequence 160, App
408	26	57.8	222	9	US-10-453-372-844	Sequence 844, App	481	26	57.8	392	9	US-10-195-883-160	Sequence 160, App
409	26	57.8	226	11	US-11-188-298-8485	Sequence 8485, Ap	482	26	57.8	392	9	US-10-195-888-160	Sequence 160, App
410	26	57.8	228	11	US-11-188-298-7542	Sequence 7542, Ap	483	26	57.8	392	9	US-10-195-889-160	Sequence 160, App
411	26	57.8	231	11	US-11-079-463-5606	Sequence 5606, Ap	484	26	57.8	392	11	US-11-084-458-2	Sequence 2, App1
412	26	57.8	233	9	US-10-784-004-1226	Sequence 1226, Ap	485	26	57.8	394	9	US-10-506-454-1376	Sequence 1376, Ap
413	26	57.8	236	11	US-11-096-568A-5589	Sequence 5589, Ap	486	26	57.8	394	11	US-11-183-615-17	Sequence 17, App1
414	26	57.8	237	11	US-11-096-568A-23093	Sequence 23093, A	487	26	57.8	402	11	US-11-174-150-47	Sequence 47, App1
415	26	57.8	239	11	US-11-188-298-19097	Sequence 19097, A	488	26	57.8	412	9	US-10-204-639-43	Sequence 43, App1
416	26	57.8	245	9	US-10-115-609-2	Sequence 2, App1	489	26	57.8	413	11	US-11-096-568A-31259	Sequence 31259, A
417	26	57.8	245	11	US-11-264-096-762	Sequence 762, App	490	26	57.8	418	11	US-11-087-099-2438	Sequence 2438, Ap
418	26	57.8	248	11	US-11-096-568A-30637	Sequence 30637, A	491	26	57.8	419	11	US-11-098-688-11151	Sequence 11151, A
419	26	57.8	252	11	US-11-096-568A-30636	Sequence 30636, A	492	26	57.8	419	11	US-11-096-568A-28190	Sequence 28190, A
420	26	57.8	255	9	US-10-793-626-914	Sequence 914, App	493	26	57.8	420	11	US-11-188-298-1201	Sequence 1201, A
421	26	57.8	255	9	US-10-793-626-2620	Sequence 2620, App	494	26	57.8	423	11	US-11-146-428-76	Sequence 76, App1
422	26	57.8	268	11	US-11-096-568A-10969	Sequence 10969, A	495	26	57.8	424	9	US-10-667-295-141	Sequence 141, App
423	26	57.8	270	11	US-11-096-568A-10968	Sequence 10968, A	496	26	57.8	424	11	US-11-087-099-3138	Sequence 3138, Ap
424	26	57.8	271	11	US-11-058-817A-4	Sequence 4, App1	497	26	57.8	428	9	US-10-793-626-508	Sequence 508, App
425	26	57.8	271	11	US-11-096-568A-1301	Sequence 1301, Ap	498	26	57.8	442	11	US-11-096-568A-28189	Sequence 28189, A
426	26	57.8	272	11	US-11-058-817A-6	Sequence 6, App1	499	26	57.8	443	11	US-11-096-568A-18990	Sequence 18990, A
427	26	57.8	273	11	US-11-098-686-10970	Sequence 10970, A	500	26	57.8	444	11	US-11-079-463-9956	Sequence 9956, Ap
428	26	57.8	274	9	US-10-353-783-51	Sequence 51, App1	501	26	57.8	446	11	US-11-045-004-655	Sequence 655, App
429	26	57.8	279	11	US-11-096-568A-1300	Sequence 1300, Ap	502	26	57.8	442	11	US-11-096-568A-28188	Sequence 28188, A
430	26	57.8	282	11	US-11-019-711-80	Sequence 80, App1	503	26	57.8	454	11	US-11-188-298-19023	Sequence 19023, A
431	26	57.8	283	9	US-10-453-372-850	Sequence 850, App	504	26	57.8	455	9	US-10-987-856-4	Sequence 4, App1
432	26	57.8	285	11	US-11-096-568A-1299	Sequence 1299, Ap	505	26	57.8	455	11	US-11-183-615-7	Sequence 7, App1
433	26	57.8	285	11	US-11-096-568A-30635	Sequence 30635, A	506	26	57.8	456	9	US-10-987-856-2	Sequence 2, App1
434	26	57.8	290	9	US-10-453-372-836	Sequence 836, App	507	26	57.8	457	11	US-11-087-099-1115	Sequence 1115, Ap
435	26	57.8	290	9	US-10-453-372-842	Sequence 842, App	508	26	57.8	462	11	US-11-188-298-22046	Sequence 22046, A
436	26	57.8	290	9	US-10-453-372-848	Sequence 848, App	509	26	57.8	463	9	US-10-934-944-282	Sequence 282, App
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440	26	57.8	290	11	US-11-113-424-78	Sequence 78, App1	513	26	57.8	473	11	US-11-188-298-15657	Sequence 15657, A
441	26	57.8	290	11	US-11-245-713-1	Sequence 1, App1	514	26	57.8	481	9	US-10-467-657-4396	Sequence 4396, Ap
442	26	57.8	290	11	US-11-345-713-3	Sequence 3, App1	515	26	57.8	480	9	US-10-506-454-1266	Sequence 1266, Ap
443	26	57.8	290	11	US-11-264-096-763	Sequence 763, App	516	26	57.8	501	9	US-10-630-203-25	Sequence 25, App1
444	26	57.8	293	11	US-11-045-004-219	Sequence 219, App	517	26	57.8	501	9	US-10-630-203-27	Sequence 27, App1
445	26	57.8	294	11	US-11-096-568A-23092	Sequence 23092, A	518	26	57.8	501	9	US-10-630-203-28	Sequence 28, App1
446	26	57.8	295	9	US-10-453-372-840	Sequence 840, App	519	26	57.8	505	9	US-10-934-944-186	Sequence 186, App
447	26	57.8	298	11	US-11-188-298-9410	Sequence 9410, Ap	520	26	57.8	505	9	US-10-934-944-228	Sequence 228, App
448	26	57.8	301	11	US-11-096-568A-31067	Sequence 31067, A	521	26	57.8	505	11	US-10-934-944-248	Sequence 248, App
449	26	57.8	311	11	US-11-096-568A-31261	Sequence 31261, A	522	26	57.8	505	11	US-11-116-881A-195	Sequence 195, App
450	26	57.8	311	11	US-11-188-298-21872	Sequence 21872, A	523	26	57.8	505	11	US-11-116-881A-237	Sequence 237, App
451	26	57.8	312	11	US-11-058-817A-8	Sequence 8, App1	524	26	57.8	505	11	US-11-116-881A-257	Sequence 257, App
452	26	57.8	314	11	US-11-058-817A-2	Sequence 2, App1	525	26	57.8	505	11	US-11-172-740-398	Sequence 398, App
453	26	57.8	314	11	US-11-096-568A-18991	Sequence 18991, A	526	26	57.8	505	11	US-11-172-740-399	Sequence 399, App
454	26	57.8	331	11	US-11-096-568A-28394	Sequence 28394, A	527	26	57.8	505	11	US-11-172-740-405	Sequence 405, App
455	26	57.8	333	9	US-10-793-626-1960	Sequence 1960, Ap	528	26	57.8	505	11	US-11-188-298-4320	Sequence 4320, Ap
456	26	57.8	333	9	US-10-878-556A-48	Sequence 48, App1	529	26	57.8	505	11	US-11-188-298-6915	Sequence 6915, Ap
457	26	57.8	333	11	US-11-087-099-7269	Sequence 7269, Ap	530	26	57.8	505	11	US-11-188-298-11130	Sequence 11130, A
458	26	57.8	333	11	US-11-087-099-7274	Sequence 7274, Ap	531	26	57.8	505	11	US-11-188-298-18300	Sequence 18300, A
459	26	57.8	336	9	US-10-453-372-640	Sequence 640, App	532	26	57.8	506	9	US-10-667-295-140	Sequence 140, App

533	26	57.8	506	11	US-11-172-740-406	Sequence 406, App	606	25	55.6	24	9	US-10-353-783-74	Sequence 74, Appl
534	26	57.8	506	11	US-11-188-298-7910	Sequence 7910, App	607	25	55.6	34	9	US-10-353-783-79	Sequence 79, Appl
535	26	57.8	506	11	US-11-188-298-17963	Sequence 17963, A	608	25	55.6	37	9	US-10-353-783-80	Sequence 80, Appl
536	26	57.8	506	11	US-11-188-298-22223	Sequence 22223, A	609	25	55.6	60	11	US-11-079-463-7175	Sequence 7175, Ap
537	26	57.8	509	11	US-11-055-309A-12	Sequence 12, Appl	610	25	55.6	60	11	US-11-079-463-7870	Sequence 7870, Ap
538	26	57.8	509	11	US-11-072-175-219	Sequence 219, App	611	25	55.6	62	11	US-11-096-568A-9878	Sequence 9878, Ap
539	26	57.8	510	11	US-11-079-463-6092	Sequence 6092, App	612	25	55.6	84	11	US-11-079-463-6910	Sequence 6910, Ap
540	26	57.8	513	11	US-11-087-099-7631	Sequence 7631, Ap	613	25	55.6	103	11	US-11-096-568A-1184	Sequence 1184, Ap
541	26	57.8	517	9	US-10-934-944-218	Sequence 218, App	614	25	55.6	107	11	US-11-072-512-3667	Sequence 3667, Ap
542	26	57.8	517	9	US-10-934-944-222	Sequence 222, App	615	25	55.6	115	9	US-10-793-626-502	Sequence 600, App
543	26	57.8	517	9	US-10-934-944-246	Sequence 246, App	616	25	55.6	122	9	US-10-793-626-102	Sequence 107, App
544	26	57.8	517	11	US-11-116-881A-227	Sequence 227, App	617	25	55.6	123	11	US-11-072-512-2112	Sequence 2112, Ap
545	26	57.8	517	11	US-11-116-881A-231	Sequence 231, App	618	25	55.6	125	9	US-10-467-657-2826	Sequence 2826, Ap
546	26	57.8	517	11	US-11-116-881A-255	Sequence 255, App	619	25	55.6	129	11	US-11-096-568A-24157	Sequence 24157, A
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548	26	57.8	519	11	US-11-188-298-20972	Sequence 20972, A	621	25	55.6	148	9	US-10-467-657-3330	Sequence 8852, Ap
549	26	57.8	526	9	US-10-667-295-139	Sequence 139, App	622	25	55.6	149	9	US-10-530-253-74	Sequence 4330, App
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553	26	57.8	538	11	US-11-087-099-2454	Sequence 2454, Ap	626	25	55.6	161	11	US-11-096-568A-8876	Sequence 8876, Ap
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562	26	57.8	607	11	US-11-188-298-16279	Sequence 16279, A	635	25	55.6	189	11	US-11-079-463-7848	Sequence 7848, Ap
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568	26	57.8	693	9	US-10-995-561-925	Sequence 925, App	641	25	55.6	217	11	US-11-264-096-1131	Sequence 1131, Ap
569	26	57.8	795	11	US-11-072-512-2810	Sequence 2810, Ap	642	25	55.6	219	11	US-11-264-096-1129	Sequence 1129, Ap
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572	26	57.8	834	9	US-10-453-372-658	Sequence 658, App	645	25	55.6	233	9	US-10-973-115B-10	Sequence 30, Appl
573	26	57.8	847	9	US-10-453-372-654	Sequence 654, App	646	25	55.6	223	9	US-10-152-370-30	Sequence 11, Appl
574	26	57.8	847	11	US-11-124-368A-234	Sequence 234, App	647	25	55.6	223	11	US-11-227-543-11	Sequence 22, Appl
575	26	57.8	857	9	US-10-453-372-652	Sequence 652, App	648	25	55.6	223	11	US-11-227-543-29	Sequence 29, Appl
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578	26	57.8	905	9	US-10-453-372-638	Sequence 638, App	651	25	55.6	223	11	US-11-045-004-821	Sequence 821, App
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580	26	57.8	905	9	US-10-453-372-664	Sequence 664, App	653	25	55.6	232	11	US-11-052-554A-51	Sequence 51, Appl
581	26	57.8	963	9	US-10-995-561-923	Sequence 923, App	654	25	55.6	238	11	US-11-052-554A-52	Sequence 52, Appl
582	26	57.8	963	9	US-10-453-372-660	Sequence 660, App	655	25	55.6	238	11	US-11-045-004-535	Sequence 535, App
583	26	57.8	1001	11	US-11-188-298-19405	Sequence 19405, A	656	25	55.6	251	11	US-11-072-512-3192	Sequence 3192, Ap
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587	26	57.8	1054	11	US-11-096-568A-31772	Sequence 31772, A	660	25	55.6	266	11	US-11-096-568A-8877	Sequence 8877, Ap
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589	26	57.8	1081	9	US-10-517-939-366	Sequence 366, App	662	25	55.6	270	9	US-10-988-476-2	Sequence 2, Appl1
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591	26	57.8	1181	11	US-11-096-568A-32611	Sequence 32611, A	664	25	55.6	273	9	US-10-353-783-42	Sequence 42, Appl
592	26	57.8	1336	8	US-10-511-937-2564	Sequence 2564, Ap	665	25	55.6	273	9	US-10-353-783-54	Sequence 54, Appl
593	26	57.8	1451	11	US-11-046-346-1	Sequence 4, Appl1	666	25	55.6	273	9	US-10-353-783-55	Sequence 55, Appl
594	26	57.8	1483	9	US-10-506-513-4	Sequence 55, Appl	667	25	55.6	273	9	US-10-988-476-4	Sequence 4, Appl1
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596	26	57.8	2098	9	US-10-055-877-253	Sequence 88, Appl	669	25	55.6	283	11	US-11-096-568A-5137	Sequence 5137, Ap
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603	25	55.6	15	9	US-10-530-061-1709	Sequence 1709, Ap	676	25	55.6	308	11	US-11-079-463-6585	Sequence 6585, Ap
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681	25	55.6	319	11	US-11-198-728-2	Sequence 2, App1	754	25	55.6	466	11	US-11-096-568A-18731	Sequence 18731, A
682	25	55.6	319	11	US-11-198-728-16	Sequence 16, App1	755	25	55.6	467	11	US-11-144-947-372	Sequence 372, App
683	25	55.6	320	11	US-11-198-728-15	Sequence 15, App1	756	25	55.6	468	11	US-11-096-568A-18730	Sequence 18730, A
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686	25	55.6	324	9	US-10-793-626-1286	Sequence 1286, App	759	25	55.6	477	11	US-11-087-099-11866	Sequence 11866, App
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689	25	55.6	325	11	US-11-188-298-11485	Sequence 11485, A	762	25	55.6	487	11	US-11-096-568A-3105	Sequence 3105, App
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691	25	55.6	329	11	US-11-096-568A-13055	Sequence 13055, A	764	25	55.6	490	11	US-11-188-298-63933	Sequence 3993, App
692	25	55.6	329	11	US-11-096-568A-33389	Sequence 33589, A	765	25	55.6	490	11	US-11-188-298-6152	Sequence 6152, App
693	25	55.6	330	11	US-11-096-568A-3822	Sequence 3822, App	766	25	55.6	491	11	US-11-188-298-4378	Sequence 4378, App
694	25	55.6	331	11	US-11-096-568A-22525	Sequence 22525, A	767	25	55.6	491	11	US-11-188-298-7418	Sequence 7418, App
695	25	55.6	332	11	US-11-129-143-53	Sequence 53, App1	768	25	55.6	491	11	US-11-045-004-1282	Sequence 1282, App
696	25	55.6	334	11	US-11-087-099-4735	Sequence 4735, App	769	25	55.6	499	11	US-11-225-903-17	Sequence 17, App1
697	25	55.6	335	11	US-11-087-099-8186	Sequence 8186, App	770	25	55.6	503	11	US-11-079-463-9642	Sequence 9642, App
698	25	55.6	336	11	US-11-096-568A-22524	Sequence 22524, A	771	25	55.6	507	11	US-11-087-099-3383	Sequence 3383, App
699	25	55.6	336	11	US-11-188-298-15958	Sequence 15958, A	772	25	55.6	507	11	US-11-188-298-3173	Sequence 3173, App
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703	25	55.6	343	11	US-11-096-568A-7652	Sequence 7652, App	776	25	55.6	512	8	US-10-505-928-233	Sequence 233, App
704	25	55.6	343	11	US-11-096-568A-20607	Sequence 20607, A	777	25	55.6	514	9	US-10-840-688-2	Sequence 2, App1
705	25	55.6	350	11	US-11-096-568A-22523	Sequence 22523, A	778	25	55.6	514	9	US-10-840-688-4	Sequence 4, App1
706	25	55.6	352	11	US-11-087-099-4341	Sequence 4341, App	779	25	55.6	514	9	US-10-840-688-5	Sequence 5, App1
707	25	55.6	357	11	US-11-096-568A-7651	Sequence 7651, App	780	25	55.6	514	9	US-10-840-688-6	Sequence 6, App1
708	25	55.6	357	11	US-11-188-298-20167	Sequence 20167, A	781	25	55.6	514	9	US-10-840-688-7	Sequence 7, App1
709	25	55.6	359	11	US-11-096-568A-6114	Sequence 6114, App	782	25	55.6	514	9	US-10-840-688-8	Sequence 8, App1
710	25	55.6	362	9	US-10-330-773-885	Sequence 885, App	783	25	55.6	514	9	US-10-840-688-9	Sequence 9, App1
711	25	55.6	367	11	US-11-045-004-1309	Sequence 1309, App	784	25	55.6	514	9	US-10-840-688-10	Sequence 10, App1
712	25	55.6	368	11	US-11-188-298-19658	Sequence 19658, A	785	25	55.6	514	9	US-10-840-688-11	Sequence 11, App1
713	25	55.6	370	9	US-10-455-772-474	Sequence 474, App	786	25	55.6	514	9	US-10-840-688-12	Sequence 12, App1
714	25	55.6	370	9	US-10-455-772-476	Sequence 476, App	787	25	55.6	514	9	US-10-840-688-13	Sequence 13, App1
715	25	55.6	370	9	US-10-455-772-478	Sequence 480, App	788	25	55.6	514	9	US-10-840-688-13	Sequence 13, App1
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718	25	55.6	379	9	US-10-455-772-484	Sequence 484, App	791	25	55.6	517	9	US-10-934-944-180	Sequence 180, App
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720	25	55.6	381	11	US-11-188-298-3140	Sequence 3140, App	793	25	55.6	517	9	US-10-934-944-224	Sequence 224, App
721	25	55.6	386	11	US-11-098-686-11292	Sequence 11292, A	794	25	55.6	517	11	US-11-116-881A-6	Sequence 6, App1
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724	25	55.6	402	11	US-11-096-568A-17440	Sequence 17440, A	797	25	55.6	517	11	US-11-116-881A-191	Sequence 191, App
725	25	55.6	402	11	US-11-045-004-986	Sequence 986, App	798	25	55.6	517	11	US-11-116-881A-233	Sequence 233, App
726	25	55.6	402	11	US-11-096-568A-20606	Sequence 1429, App	799	25	55.6	517	11	US-11-116-881A-368	Sequence 368, App
727	25	55.6	404	11	US-11-096-568A-20606	Sequence 20606, A	800	25	55.6	517	11	US-11-116-881A-372	Sequence 372, App
728	25	55.6	406	11	US-11-096-568A-6113	Sequence 6113, App	801	25	55.6	517	11	US-11-116-881A-374	Sequence 374, App
729	25	55.6	416	11	US-11-146-428-114	Sequence 114, App	802	25	55.6	517	11	US-11-116-881A-376	Sequence 376, App
730	25	55.6	420	11	US-11-185-230-5	Sequence 5, App1	803	25	55.6	517	11	US-11-116-881A-378	Sequence 378, App
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733	25	55.6	423	11	US-11-096-568A-17439	Sequence 17439, A	806	25	55.6	523	11	US-11-079-463-8886	Sequence 8886, App
734	25	55.6	426	11	US-11-079-463-5973	Sequence 5973, App	807	25	55.6	523	11	US-11-072-512-3546	Sequence 3546, App
735	25	55.6	434	11	US-11-337-600-6	Sequence 6, App1	808	25	55.6	525	11	US-11-188-298-3842	Sequence 3842, App
736	25	55.6	436	11	US-11-072-512-3432	Sequence 3432, App	809	25	55.6	527	11	US-11-096-568A-20040	Sequence 20040, A
737	25	55.6	436	11	US-11-087-099-7401	Sequence 7401, App	810	25	55.6	530	11	US-11-096-568A-15792	Sequence 15792, A
738	25	55.6	436	11	US-11-045-004-2776	Sequence 2776, App	811	25	55.6	531	11	US-11-096-568A-13053	Sequence 13053, A
739	25	55.6	437	11	US-11-079-463-10201	Sequence 10201, A	812	25	55.6	540	11	US-11-096-568A-28774	Sequence 28774, A
740	25	55.6	439	11	US-11-096-568A-17438	Sequence 17438, A	813	25	55.6	545	11	US-11-096-568A-15791	Sequence 15791, A
741	25	55.6	445	11	US-11-146-428-110	Sequence 110, App	814	25	55.6	553	11	US-11-090-459-18	Sequence 18, App1
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## ALIGNMENTS

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
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; SOFTWARE: Patentin version 3.3
; SEQ ID NO 519
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; ORGANISM: Human papillomavirus
US-10-530-061-519

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
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; ORGANISM: Human papillomavirus
US-10-530-061-1660

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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
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US-10-530-061-1661
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
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/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
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/ APPLICANT: SUTHWOOD, JOHN
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
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US-10-530-061-518
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/ APPLICANT: SUTHWOOD, JOHN
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-M
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/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
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/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
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Query Match          86.7%; Score 39; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 AAFKDLFVV 9
    |||||
Db 1 AAFKDLFVV 8
```

```
RESULT 7
US-10-530-061-521
/ Sequence 521, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: SUTHWOOD, JOHN
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 521
/ LENGTH: 10
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-521
```

```
Query Match          86.7%; Score 39; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2 AAFKDLFVV 9
    |||||
Db 1 AAFKDLFVV 8
```

```
RESULT 8
US-10-530-253-25
/ Sequence 25, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Cassecci, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ CURRENT FILING DATE: 2005-04-04
```

PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 25  
LENGTH: 160  
TYPE: PRT  
ORGANISM: Human papillomavirus type 59  
US-10-530-253-25

Query Match 86.7%; Score 39; DB 9; Length 160;  
Best Local Similarity 77.8%; Pred. No. 1.3;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
Db 47 FAFNDLFTV 55

RESULT 9  
US-10-530-061-791  
Sequence 791, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 791  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-791

Query Match 82.2%; Score 37; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.18;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
Db 4 FAFKDLF 10

RESULT 10  
US-10-530-061-849  
Sequence 849, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269

PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 849  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-849

Query Match 82.2%; Score 37; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.18;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
Db 4 FAFKDLF 10

RESULT 11  
US-10-530-253-19  
Sequence 19, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Casasetti, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan P. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT APPLICATION NUMBER: US/10/530,253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 19  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 39  
US-10-530-253-19

Query Match 82.2%; Score 37; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 3.1;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
Db 47 FAFSDLVV 55

RESULT 12  
US-10-530-061-82  
Sequence 82, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530,061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 82

LENGTH: 9  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-82

Query Match 80.0%; Score 36; DB 9; Length 9;  
Best Local Similarity 87.5%; Pred. No. 1.9e+05;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 1 AYKDLFV 8

RESULT 13  
US-10-530-061-808  
Sequence 808, Application US/10530061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.033US02/EXS/M-M  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 808  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-808

Query Match 80.0%; Score 36; DB 9; Length 9;  
Best Local Similarity 87.5%; Pred. No. 1.9e+05;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 1 AYKDLFV 8

RESULT 14  
US-10-530-253-20  
Sequence 20, Application US/10530253  
Publication No. US20060014926A1  
GENERAL INFORMATION:  
APPLICANT: Casasetti, Maria C.  
APPLICANT: Smith, Larry  
APPLICANT: Jeffrey K. Pullen  
APPLICANT: Susan F. McElhinney  
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
FILE REFERENCE: 00630/100M137-US2  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 20  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 45  
US-10-530-253-20

Query Match 80.0%; Score 36; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 4.9; 1; Indels 0; Gaps 0;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
DB 47 FAFKDLFV 55

RESULT 15  
US-11-188-298-6659  
Sequence 6659, Application US/11188298  
Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: US/11/188,298  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 6659  
LENGTH: 389  
TYPE: PRT  
ORGANISM: Chlamydomonas reinhardtii  
US-11-188-298-6659

Query Match 80.0%; Score 36; DB 11; Length 389;  
Best Local Similarity 87.5%; Pred. No. 12;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 131 AFKDLFV 138

RESULT 16  
US-10-510-386-28  
Sequence 28, Application US/10510386  
Publication No. US20050244922A1  
GENERAL INFORMATION:  
APPLICANT: Andersen, Jens Tonne  
APPLICANT: Clausen, Ib Groch  
APPLICANT: Jorgensen, Steen Troels  
APPLICANT: Olsen, Peter Bjarke  
APPLICANT: Rasmussen, Michael Dolberg  
TITLE OF INVENTION: Improved Bacillus Host Cell  
FILE REFERENCE: 10294.204-US  
CURRENT FILING DATE: 2004-10-04  
PRIOR APPLICATION NUMBER: US/10/510,386  
NUMBER OF SEQ ID NOS: 248  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 28  
LENGTH: 874  
TYPE: PRT  
ORGANISM: Bacillus licheniformis  
US-10-510-386-28

Query Match 75.6%; Score 34; DB 9; Length 874;  
Best Local Similarity 75.0%; Pred. No. 71;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 AFKDLFV 9  
DB 355 AFKDLFV 362

RESULT 17  
US-10-510-386-200  
Sequence 200, Application US/10510386  
Publication No. US20050244922A1

```

; GENERAL INFORMATION:
; APPLICANT: Andersen, Jens Tonne
; APPLICANT: Clausen, Ib Groch
; APPLICANT: Jorgensen, Steen Troels
; APPLICANT: Olsen, Peter Bjarke
; APPLICANT: Rasmussen, Michael Dolberg
; TITLE OF INVENTION: Improved Bacillus Host Cell
; FILE REFERENCE: 10294.204-US
; CURRENT APPLICATION NUMBER: US/10/510,386
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 200
; LENGTH: 1047
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
; US-10-510-386-200

Query Match          75.6%; Score 34; DB 9; Length 1047;
Best Local Similarity 75.0%; Pred. No. 85;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 AFKDLFVY 9
Db      355 AFKDMYV 362

RESULT 18
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-10-530-253-13

Query Match          73.3%; Score 33; DB 9; Length 151;
Best Local Similarity 66.7%; Pred. No. 18;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFVY 9
Db      45 FAFRDLCTV 53

RESULT 19
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin version 3.3
```

```

; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-11-206-138-3

Query Match          73.3%; Score 33; DB 11; Length 158;
Best Local Similarity 66.7%; Pred. No. 19;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFVY 9
Db      52 FAFRDLCTV 60

RESULT 20
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-10-530-253-1

Query Match          73.3%; Score 33; DB 9; Length 248;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 FAFKDLFVY 9
Db      45 FAFRDLCTV 53

RESULT 21
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-10-530-253-3
```

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 45 PAFRDLCTV 53

## RESULT 22

US-10-530-253-5  
; Sequence 5, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-5

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 45 PAFRDLCTV 53

## RESULT 23

US-10-530-253-7  
; Sequence 7, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-7

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 142 PAFRDLCTV 150

## RESULT 24

US-10-530-253-9  
; Sequence 9, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-9

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 142 PAFRDLCTV 150

## RESULT 25

US-10-530-253-11  
; Sequence 11, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassetti, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; PRIOR FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 248  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 16  
US-10-530-253-11

Query Match 73.3%; Score 33; DB 9; Length 248;  
Best Local Similarity 66.7%; Pred. No. 30;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 PAFKDLFV 9  
|||:|:|  
Db 142 PAFRDLCTV 150

```
RESULT 26
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2
```

```
Query Match      73.3%; Score 33; DB 11; Length 256;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 9
Db      150 FAFKDLCTV 158
```

```
RESULT 27
US-10-530-061-520
; Sequence 520, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 520
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-520
```

```
Query Match      71.1%; Score 32; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 1.7;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 AFDKLFV 9
Db      1 AVKDLFV 8
```

```
RESULT 28
US-10-530-061-784
; Sequence 784, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
```

```
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 784
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-784
```

```
Query Match      71.1%; Score 32; DB 9; Length 11;
Best Local Similarity 75.0%; Pred. No. 1.9;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 8
Db      4 FAFKDLCTI 11
```

```
RESULT 29
US-10-467-657-9012
; Sequence 9012, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASTIGNANI Vega
; APPLICANT: MONACT Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWIn99, version 1.04
; SEQ ID NO 9012
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-9012
```

```
Query Match      71.1%; Score 32; DB 9; Length 114;
Best Local Similarity 75.0%; Pred. No. 21;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 FAFKDLFV 8
Db      20 FAFKDLFV 27
```

```
RESULT 30
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasecti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
```



CURRENT APPLICATION NUMBER: US/10/530.253  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US2003/031726  
PRIOR FILING DATE: 2003-10-02  
PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 26  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 68  
US-10-530-253-26

Query Match 71.1%; Score 32; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 30;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FAFKDLFV 9  
|||  
Db 47 FAFSDLCV 55

RESULT 31  
US-11-087-099-1167  
Sequence 1167, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 1167  
LENGTH: 262  
TYPE: PRT  
ORGANISM: Picea abies  
US-11-087-099-1167

Query Match 71.1%; Score 32; DB 11; Length 262;  
Best Local Similarity 85.7%; Pred. No. 51;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
|||  
Db 44 FAFKDYF 50

RESULT 32  
US-11-188-298-1192  
Sequence 1192, Application US/11188298  
Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 1192  
LENGTH: 262  
TYPE: PRT  
ORGANISM: Picea abies  
US-11-188-298-1192

Query Match 71.1%; Score 32; DB 11; Length 262;  
Best Local Similarity 85.7%; Pred. No. 51;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7

Db 44 FAFKDYF 50  
|||

RESULT 33  
US-11-096-568A-11908  
Sequence 11908, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 11908  
LENGTH: 286  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (1)..(286)  
OTHER INFORMATION: Ceres Seq. ID no. 15219940  
US-11-096-568A-11908

Query Match 71.1%; Score 32; DB 11; Length 286;  
Best Local Similarity 71.4%; Pred. No. 55;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
|||  
Db 77 FAFKDIY 83

RESULT 34  
US-11-096-568A-11907  
Sequence 11907, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
FILE REFERENCE: 2750-1592PUS2  
CURRENT APPLICATION NUMBER: US/11/096,568A  
CURRENT FILING DATE: 2005-04-01  
NUMBER OF SEQ ID NOS: 34471  
SEQ ID NO 11907  
LENGTH: 299  
TYPE: PRT  
ORGANISM: Triticum aestivum  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (1)..(299)  
OTHER INFORMATION: Ceres Seq. ID no. 15219939  
US-11-096-568A-11907

Query Match 71.1%; Score 32; DB 11; Length 299;  
Best Local Similarity 71.4%; Pred. No. 58;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 FAFKDLF 7  
|||  
Db 90 FAFKDIY 96

RESULT 35  
US-11-096-568A-11906  
Sequence 11906, Application US/11096568A  
Publication No. US20060048240A1  
GENERAL INFORMATION:  
APPLICANT: Alexandrov, Nikolai et al.  
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

```

; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11906
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(313)
; OTHER INFORMATION: Cerees Seq. ID no. 15219938
US-11-096-568A-11906

```

```

Query Match      71.1%; Score 32; DB 11; Length 313;
Best Local Similarity 71.4%; Pred. No. 61;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
Db      104 FAFKDYF 110

```

```

RESULT 36
US-11-188-298-22033
; Sequence 22033, Application US/11188298
; Publication No. US2006075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 22033
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-22033

```

```

Query Match      71.1%; Score 32; DB 11; Length 318;
Best Local Similarity 85.7%; Pred. No. 62;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
Db      100 FAFKDYF 106

```

```

RESULT 37
US-11-087-099-2407
; Sequence 2407, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2407
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum turgidum
US-11-087-099-2407

```

```

Query Match      71.1%; Score 32; DB 11; Length 331;
Best Local Similarity 85.7%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
Db      113 FAFKDYF 119

```

```

RESULT 38
US-11-188-298-13365
; Sequence 13365, Application US/11188298
; Publication No. US2006075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13365
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum turgidum
US-11-188-298-13365

```

```

Query Match      71.1%; Score 32; DB 11; Length 331;
Best Local Similarity 85.7%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
Db      113 FAFKDYF 119

```

```

RESULT 39
US-11-188-298-13956
; Sequence 13956, Application US/11188298
; Publication No. US2006075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13956
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-13956

```

```

Query Match      71.1%; Score 32; DB 11; Length 331;
Best Local Similarity 85.7%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 FAFKDLF 7
Db      113 FAFKDYF 119

```

```

RESULT 40
US-11-188-298-14389
; Sequence 14389, Application US/11188298
; Publication No. US2006075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31

```

; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 14389  
; LENGTH: 331  
; TYPE: PRT  
; ORGANISM: Trifolium aestivum  
US-11-188-298-14389

Query Match 71.1%; Score 32; DB 11; Length 331;  
Best Local Similarity 85.7%; Pred. No. 64;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
| | | | |  
Db 113 FAFKDYF 119

RESULT 41  
US-11-096-568A-25998  
; Sequence 25998, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; TITLE OF INVENTION: Theedy  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; PRIOR FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 25998  
; LENGTH: 338  
; TYPE: PRT  
; ORGANISM: Zea mays subsp. mays  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(338)  
; OTHER INFORMATION: Ceres Seq. ID no. 13496486  
US-11-096-568A-25998

Query Match 71.1%; Score 32; DB 11; Length 338;  
Best Local Similarity 85.7%; Pred. No. 65;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
| | | | |  
Db 120 FAFKDYF 126

RESULT 42  
US-11-188-298-1366  
; Sequence 1366, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; CURRENT APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 1366  
; LENGTH: 380  
; TYPE: PRT  
; ORGANISM: Trifolium aestivum  
US-11-188-298-1366

Query Match 71.1%; Score 32; DB 11; Length 380;  
Best Local Similarity 85.7%; Pred. No. 74;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
| | | | |  
Db 162 FAFKDYF 168

RESULT 43  
US-11-188-298-2542  
; Sequence 2542, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; CURRENT APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 2542  
; LENGTH: 380  
; TYPE: PRT  
; ORGANISM: Trifolium aestivum  
US-11-188-298-2542

Query Match 71.1%; Score 32; DB 11; Length 380;  
Best Local Similarity 85.7%; Pred. No. 74;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
| | | | |  
Db 162 FAFKDYF 168

RESULT 44  
US-11-188-298-12411  
; Sequence 12411, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; CURRENT APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 12411  
; LENGTH: 380  
; TYPE: PRT  
; ORGANISM: Trifolium aestivum  
US-11-188-298-12411

Query Match 71.1%; Score 32; DB 11; Length 380;  
Best Local Similarity 85.7%; Pred. No. 74;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FAFKDLF 7  
| | | | |  
Db 162 FAFKDYF 168

RESULT 45  
US-11-188-298-15294  
; Sequence 15294, Application US/11188298  
; Publication No. US20060075522A1  
; GENERAL INFORMATION:  
; APPLICANT: Abad, Mark S. et al.  
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
; FILE REFERENCE: 38-21(53452)B  
; CURRENT APPLICATION NUMBER: US/11/188,298  
; PRIOR FILING DATE: 2005-07-22  
; CURRENT APPLICATION NUMBER: 60/592,978  
; PRIOR FILING DATE: 2004-07-31  
; NUMBER OF SEQ ID NOS: 22569  
; SEQ ID NO 15294  
; LENGTH: 380

```

; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-15294

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 46
US-11-188-298-15878
; Sequence 15878, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15878
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-15878

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 47
US-11-188-298-17186
; Sequence 17186, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17186
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-17186

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 48
US-11-188-298-18206
; Sequence 18206, Application US/11188298
; Publication No. US20060075522A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 18206
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-18206

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 49
US-11-188-298-22293
; Sequence 22293, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 22293
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-22293

Query Match
Best Local Similarity 71.1%; Score 32; DB 11; Length 380;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FAFKDLF 7
Db 162 FAFKDYF 168

RESULT 50
US-11-188-298-3303
; Sequence 3303, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3303
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(381)
; OTHER INFORMATION: unsure at all Xaa locations
```

US-11-188-298-3303

Query Match 71.1%; Score 32; DB 11; Length 381;  
Best Local Similarity 85.7%; Pred No. 74;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PAFKDLF 7  
|||  
Db 162 PAFKDYF 168

Search completed: May 5, 2006, 08:51:36  
Job time : 9.4 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 03:13:35 / Search time 21 Seconds  
(without alignments)  
35.432 Million cell updates/sec

Title: US-08-170-344-28  
Perfect score: 45  
Sequence: 1 DTLEKLTNT 9

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued\_Patents\_AA:\*  
1: /cgn2\_6/prodata/1/1aa/5-COMB.pep.\*  
2: /cgn2\_6/prodata/1/1aa/6-COMB.pep.\*  
3: /cgn2\_6/prodata/1/1aa/H-COMB.pep.\*  
4: /cgn2\_6/prodata/1/1aa/BCTUS-COMB.pep.\*  
5: /cgn2\_6/prodata/1/1aa/RB-COMB.pep.\*  
6: /cgn2\_6/prodata/1/1aa/backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	158	1	US-08-247-904B-10
2	45	100.0	158	2	US-08-767-942A-19
3	45	100.0	271	1	US-08-117-083-14
4	45	100.0	278	2	US-09-485-885-21
5	45	100.0	383	2	US-09-485-885-23
6	39	86.7	11	2	US-08-159-339A-1173
7	38	84.4	533	1	US-07-683-957B-3
8	35	77.8	180	2	US-09-107-433-4010
9	35	77.8	249	2	US-08-961-083-6
10	35	77.8	249	2	US-09-536-784-6
11	35	77.8	249	2	US-09-765-271-6
12	35	77.8	249	2	US-09-765-272A-6
13	35	77.8	250	2	US-08-961-083-226
14	35	77.8	250	2	US-09-536-784-226
15	35	77.8	250	2	US-09-765-271-226
16	35	77.8	250	2	US-09-765-272A-226
17	35	77.8	256	2	US-09-583-110-5299
18	35	77.8	256	2	US-09-769-787-165
19	35	77.8	316	2	US-09-543-681A-5023
20	34	75.6	32	2	US-08-466-285-4
21	34	75.6	32	2	US-08-164-768-4
22	34	75.6	160	1	US-07-847-010-23
23	34	75.6	328	2	US-09-270-767-62218
24	33	73.3	167	2	US-09-270-767-36082
25	33	73.3	167	2	US-09-270-767-51289
26	33	73.3	449	2	US-09-107-433-4132
27	33	73.3	454	2	US-09-583-110-3922

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29	73.3	852	2	US-09-270-767-46693	Sequence 46693, A
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31	71.1	469	2	US-09-107-532A-3672	Sequence 3672, Ap
32	71.1	625	2	US-09-248-796A-17351	Sequence 17351, A
33	68.9	121	2	US-09-248-796A-24131	Sequence 24131, A
34	68.9	200	2	US-09-543-681A-6662	Sequence 6662, Ap
35	68.9	233	1	US-08-928-692-31	Sequence 31, Appl
36	68.9	233	2	US-09-338-972-21	Sequence 19850, A
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38	68.9	271	2	US-09-328-352-7066	Sequence 18996, A
39	68.9	305	2	US-08-248-796A-18996	Sequence 1, Appl1
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44	68.9	338	2	US-08-984-207-1	Sequence 1, Appl1
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53	68.9	656	2	US-09-248-796A-15211	Sequence 2, Appl1
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57	68.9	1228	2	US-09-270-767-39502	Sequence 39502, A
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62	66.7	126	6	5518899-5	Sequence 32, Appl1
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96	66.7	142	2	US-09-601-729-11	Sequence 24, Appl1
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102	30	66.7	143	2	US-09-102-150-8	Sequence 8, Appli	175	29	64.4	35	2	US-10-189-977A-20	Sequence 20, Appli
103	30	66.7	143	2	US-09-601-728-2	Sequence 2, Appli	176	29	64.4	45	2	US-10-318-675A-49	Sequence 49, Appli
104	30	66.7	143	2	US-10-195-707B-1	Sequence 1, Appli	177	29	64.4	81	2	US-09-583-110-5264	Sequence 5264, Ap
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106	30	66.7	144	2	US-09-601-729-7	Sequence 7, Appli	179	29	64.4	89	2	US-09-430-029-4	Sequence 4, Appli
107	30	66.7	146	6	US-08-030-077-1	Sequence 1, Appli	180	29	64.4	109	2	US-09-270-767-8313	Sequence 4313, A
108	30	66.7	146	6	5210029-4	Patent No. 5210029	181	29	64.4	109	2	US-09-270-767-88469	Sequence 58469, A
109	30	66.7	146	6	5278286-3	Patent No. 5278286	182	29	64.4	135	2	US-09-270-767-59172	Sequence 59172, A
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112	30	66.7	166	2	US-08-765-381-8	Sequence 8, Appli	185	29	64.4	172	2	US-09-583-110-4486	Sequence 4486, Ap
113	30	66.7	166	2	US-08-765-381-14	Sequence 14, Appli	186	29	64.4	176	2	US-09-107-433-2763	Sequence 2763, Ap
114	30	66.7	166	2	US-09-206-935-24	Sequence 24, Appli	187	29	64.4	200	2	US-09-144-000C-3599	Sequence 3599, Ap
115	30	66.7	166	2	US-10-195-707B-18	Sequence 18, Appli	188	29	64.4	244	2	US-09-134-000C-3599	Sequence 3599, Ap
116	30	66.7	181	4	PCT-US96-01314-61	Sequence 61, Appli	189	29	64.4	270	2	US-09-809-920-14	Sequence 14, Appli
117	30	66.7	184	2	US-08-974-899-7	Sequence 7, Appli	190	29	64.4	278	2	US-09-949-016-10508	Sequence 10508, A
118	30	66.7	184	2	US-08-974-899-8	Sequence 8, Appli	191	29	64.4	318	2	US-08-555-755C-6	Sequence 6, Appli
119	30	66.7	184	2	US-09-795-798-7	Sequence 7, Appli	192	29	64.4	336	2	US-09-673-395A-600	Sequence 600, App
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121	30	66.7	192	2	US-09-270-767-38337	Sequence 38337, A	194	29	64.4	351	2	US-08-591-685-7	Sequence 7, Appli
122	30	66.7	192	2	US-09-270-767-53554	Sequence 53554, A	195	29	64.4	351	2	US-09-636-728-28	Sequence 28, Appli
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125	30	66.7	245	2	US-09-248-796A-19051	Sequence 19051, A	198	29	64.4	385	2	US-09-270-767-43774	Sequence 43774, A
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132	30	66.7	337	2	US-09-248-796A-15798	Sequence 15798, A	205	29	64.4	494	2	US-08-656-664-39	Sequence 39, Appli
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137	30	66.7	546	2	US-09-022-765-2	Sequence 2, Appli	210	29	64.4	540	2	US-10-264-303-3	Sequence 3, Appli
138	30	66.7	546	2	US-09-551-974A-2	Sequence 2, Appli	211	29	64.4	543	2	US-09-540-236-2566	Sequence 2566, Ap
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140	30	66.7	546	2	US-09-639-206A-2	Sequence 2, Appli	213	29	64.4	571	2	US-08-484-661A-37	Sequence 37, Appli
141	30	66.7	546	2	US-09-874-923-2	Sequence 2, Appli	214	29	64.4	571	4	PCT-US96-09641-37	Sequence 37, Appli
142	30	66.7	546	2	US-08-798-841-2	Sequence 2, Appli	215	29	64.4	578	2	US-08-484-661A-11	Sequence 11, Appli
143	30	66.7	589	2	US-10-261-164-2	Sequence 2, Appli	216	29	64.4	578	2	US-08-656-664-11	Sequence 11, Appli
144	30	66.7	615	2	US-09-543-681A-5877	Sequence 5877, Ap	217	29	64.4	578	4	PCT-US96-09641-11	Sequence 11, Appli
145	30	66.7	808	1	US-08-375-100-1	Sequence 38, Appli	218	29	64.4	578	4	PCT-US96-09641-11	Sequence 11, Appli
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150	30	66.7	982	2	US-09-874-923-95	Sequence 95, Appli	223	29	64.4	610	2	US-08-484-661A-23	Sequence 23, Appli
151	30	66.7	1065	2	US-08-630-172-9	Sequence 9, Appli	224	29	64.4	610	2	US-08-484-661A-26	Sequence 26, Appli
152	30	66.7	1065	2	US-09-375-419-9	Sequence 9, Appli	225	29	64.4	610	2	US-08-484-661A-29	Sequence 29, Appli
153	30	66.7	1163	2	US-09-949-016-11047	Sequence 11047, A	226	29	64.4	610	2	US-08-484-661A-33	Sequence 33, Appli
154	30	66.7	1170	1	US-08-789-078-2	Sequence 2, Appli	227	29	64.4	610	2	US-08-484-661A-35	Sequence 35, Appli
155	30	66.7	1170	1	US-08-752-633-2	Sequence 42, Appli	228	29	64.4	610	2	US-08-656-664-8	Sequence 8, Appli
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164	30	66.7	1427	2	US-09-551-974A-96	Sequence 96, Appli	237	29	64.4	610	2	US-09-019-160-10	Sequence 10, Appli
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170	30	66.7	2210	2	US-09-605-703B-2030	Sequence 2030, Ap	243	29	64.4	610	4	PCT-US96-09641-33	Sequence 33, Appli
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172	29	64.4	36	2	US-09-092-315-20	Sequence 20, Appli	245	29	64.4	610	4	PCT-US96-09641-33	Sequence 33, Appli
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248	29	64.4	610	4	PCT-US96-09641-54	Sequence 54, Appl	321	28	62.2	318	1	US-08-695-142B-12	Sequence 12, Appl
249	29	64.4	616	2	US-09-248-796A-17521	Sequence 17521, A	322	28	62.2	318	2	US-09-235-154D-12	Sequence 12, Appl
250	29	64.4	642	2	US-09-423-439-26	Sequence 26, Appl	323	28	62.2	318	2	US-09-489-039A-13767	Sequence 13767, A
251	29	64.4	643	2	US-09-423-439-16	Sequence 16, Appl	324	28	62.2	318	2	US-10-213-452A-12	Sequence 12, Appl
252	29	64.4	647	2	US-09-423-439-60	Sequence 60, Appl	325	28	62.2	329	2	US-09-719-108-6	Sequence 6, Appl
253	29	64.4	649	2	US-09-830-230A-238	Sequence 238, Appl	326	28	62.2	329	2	US-09-540-236-3057	Sequence 3057, Ap
254	29	64.4	666	2	US-09-423-439-51	Sequence 51, Appl	327	28	62.2	330	2	US-09-668-086-12	Sequence 12, Appl
255	29	64.4	668	2	US-09-830-230A-237	Sequence 237, Appl	328	28	62.2	330	2	US-09-668-086-12	Sequence 12, Appl
256	29	64.4	672	2	US-09-423-439-32	Sequence 32, Appl	329	28	62.2	332	2	US-10-155-435-10	Sequence 4, Appl
257	29	64.4	673	2	US-09-019-160-3	Sequence 3, Appl	330	28	62.2	332	2	US-09-719-108-10	Sequence 10, Appl
258	29	64.4	708	2	US-09-019-160-5	Sequence 5, Appl	331	28	62.2	333	2	US-09-371-307-63	Sequence 63, Appl
259	29	64.4	788	2	US-09-489-039A-11122	Sequence 11122, A	332	28	62.2	335	2	US-09-125-031C-11	Sequence 12, Appl
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262	29	64.4	819	2	US-09-976-594-369	Sequence 369, App	335	28	62.2	342	2	US-09-543-661A-5347	Sequence 5347, Ap
263	29	64.4	827	2	US-09-949-016-7807	Sequence 7807, Ap	336	28	62.2	350	2	US-09-248-796A-23465	Sequence 23465, A
264	29	64.4	833	1	US-08-706-702-3	Sequence 3, Appl	337	28	62.2	355	2	US-09-270-767-45827	Sequence 45827, A
265	29	64.4	893	2	US-08-484-661A-2	Sequence 2, Appl	338	28	62.2	363	2	US-09-428-034-2	Sequence 2, Appl
266	29	64.4	893	2	US-08-706-706-3	Sequence 3, Appl	339	28	62.2	376	2	US-09-543-681A-5579	Sequence 5579, Ap
267	29	64.4	893	2	US-08-656-664-2	Sequence 2, Appl	340	28	62.2	376	2	US-09-543-681A-5740	Sequence 6740, Ap
268	29	64.4	893	2	US-09-019-160-2	Sequence 2, Appl	341	28	62.2	379	2	US-09-125-031C-11	Sequence 11, Appl
269	29	64.4	893	2	US-09-019-160-6	Sequence 6, Appl	342	28	62.2	393	2	US-09-134-000C-6751	Sequence 6751, Ap
270	29	64.4	893	2	US-09-019-160-7	Sequence 7, Appl	343	28	62.2	398	2	US-09-328-352-7199	Sequence 7199, Ap
271	29	64.4	893	2	US-09-019-160-8	Sequence 8, Appl	344	28	62.2	404	2	US-10-017-754-1932	Sequence 1932, Ap
272	29	64.4	893	2	US-09-019-160-9	Sequence 9, Appl	345	28	62.2	407	2	US-09-438-185A-691	Sequence 691, App
273	29	64.4	893	2	US-09-338-471-3	Sequence 3, Appl	346	28	62.2	416	2	US-09-198-452A-193	Sequence 193, App
274	29	64.4	893	4	PCT-US96-09641-2	Sequence 2, Appl	347	28	62.2	421	2	US-09-438-185A-178	Sequence 178, App
275	29	64.4	1001	2	US-09-949-016-9832	Sequence 9832, Ap	348	28	62.2	416	2	US-09-438-185A-178	Sequence 1347, Ap
276	29	64.4	1013	2	US-09-712-363-214	Sequence 214, App	349	28	62.2	416	2	US-09-198-452A-193	Sequence 193, App
277	29	64.4	1016	2	US-09-949-016-11304	Sequence 11304, A	350	28	62.2	421	2	US-09-198-452A-193	Sequence 6642, Ap
278	29	64.4	1186	2	US-09-543-681A-5514	Sequence 5514, Ap	351	28	62.2	421	2	US-09-438-185A-178	Sequence 178, App
279	29	64.4	1193	2	US-09-227-725A-4	Sequence 4, Appl	352	28	62.2	427	2	US-08-855-910-13	Sequence 3347, Ap
280	29	64.4	1193	2	US-10-071-900-4	Sequence 4, Appl	353	28	62.2	427	2	US-09-134-000C-5142	Sequence 5142, Ap
281	29	64.4	1209	4	PCT-US95-04589-107	Sequence 107, App	354	28	62.2	427	2	US-09-270-767-43924	Sequence 43924, A
282	29	64.4	1211	2	US-09-167-206-14	Sequence 14, Appl	355	28	62.2	431	2	US-08-478-507-2	Sequence 2, Appl
283	29	64.4	1233	2	US-09-252-991A-23237	Sequence 23237, A	356	28	62.2	431	2	US-09-128-275A-2	Sequence 2, Appl
284	29	64.4	1258	1	US-08-310-912A-107	Sequence 107, App	357	28	62.2	431	2	US-09-553-427-2	Sequence 4917, Ap
285	29	64.4	1258	1	US-09-301-085-107	Sequence 107, App	358	28	62.2	440	2	US-09-134-000C-917	Sequence 126, App
286	29	64.4	1294	2	US-08-930-996A-10	Sequence 10, Appl	359	28	62.2	460	2	US-09-266-965-16	Sequence 1934, Ap
287	29	64.4	2110	2	US-09-809-665A-16	Sequence 16, Appl	360	28	62.2	464	2	US-10-017-754-1934	Sequence 3563, Ap
288	29	64.4	76	2	US-08-336-165A-383	Sequence 383, App	361	28	62.2	464	2	US-10-104-047-3563	Sequence 2, Appl
289	28	62.2	76	2	US-09-543-681A-4363	Sequence 4363, Ap	362	28	62.2	467	1	US-08-140-10A-2	Sequence 2311, A
290	28	62.2	81	2	US-09-770-834-1	Sequence 1, Appl	363	28	62.2	470	2	US-09-248-796A-23131	Sequence 17531, A
291	28	62.2	98	2	US-09-543-681A-6937	Sequence 6937, Ap	364	28	62.2	475	2	US-09-248-796A-17531	Sequence 2, Appl
292	28	62.2	106	2	US-09-543-681A-5874	Sequence 5874, Ap	365	28	62.2	489	2	US-09-888-330-2	Sequence 134, App
293	28	62.2	106	2	US-09-134-000C-6577	Sequence 6577, Ap	366	28	62.2	489	2	US-09-716-968B-134	Sequence 44, Appl
294	28	62.2	106	2	US-09-134-000C-6681	Sequence 6681, Ap	367	28	62.2	542	2	US-09-302-769-44	Sequence 5673, Ap
295	28	62.2	113	2	US-09-543-681A-5797	Sequence 5797, Ap	368	28	62.2	542	2	US-08-962-560C-44	Sequence 22, Appl
296	28	62.2	113	2	US-09-489-039A-10098	Sequence 10098, A	369	28	62.2	567	2	US-09-543-681A-5673	Sequence 22, Appl
297	28	62.2	116	2	US-09-489-039A-9295	Sequence 9295, App	370	28	62.2	572	2	US-09-662-258B-22	Sequence 2, Appl
298	28	62.2	120	2	US-10-101-466A-781	Sequence 781, App	371	28	62.2	596	1	US-08-179-738-2	Sequence 19, Appl
299	28	62.2	120	2	US-09-134-000C-6663	Sequence 6663, Ap	372	28	62.2	596	1	US-08-628-145-2	Sequence 20, Appl
300	28	62.2	128	2	US-09-198-452A-235	Sequence 235, App	373	28	62.2	596	2	US-09-886-318A-19	Sequence 2098, Ap
301	28	62.2	128	2	US-09-438-185A-225	Sequence 225, App	374	28	62.2	630	2	US-09-605-703B-2098	Sequence 9510, Ap
302	28	62.2	132	6	5229115-2	Sequence 16572, A	375	28	62.2	630	2	US-09-949-016-9510	Sequence 4308, Ap
303	28	62.2	132	2	US-09-248-796A-16572	Sequence 16572, A	376	28	62.2	646	2	US-09-107-532A-6425	Sequence 4425, Ap
304	28	62.2	133	2	US-09-902-540-13845	Sequence 13845, A	377	28	62.2	655	2	US-09-540-236-3300	Sequence 3300, Ap
305	28	62.2	134	1	US-08-446-308-2	Sequence 2, Appl	378	28	62.2	655	2	US-09-540-236-3300	Sequence 2, Appl
306	28	62.2	134	1	US-08-221-205A-2	Sequence 2, Appl	379	28	62.2	666	1	US-08-737-716-14	Sequence 19045, A
307	28	62.2	154	1	US-08-871-161-2	Sequence 2, Appl	380	28	62.2	709	2	US-09-248-796A-19045	Sequence 17753, A
308	28	62.2	159	2	US-09-270-767-32415	Sequence 32415, A	381	28	62.2	756	2	US-09-489-039A-13549	Sequence 13549, A
309	28	62.2	169	2	US-09-270-767-47632	Sequence 47632, A	382	28	62.2	759	1	US-08-450-351-2	Sequence 4, Appl
310	28	62.2	178	2	US-09-489-039A-13549	Sequence 13549, A	383	28	62.2	759	1	US-08-450-351-2	Sequence 4, Appl
311	28	62.2	197	2	US-09-248-796A-15490	Sequence 15490, A	384	28	62.2	777	2	US-09-540-236-3300	Sequence 3300, Ap
312	28	62.2	201	2	US-09-248-796A-14664	Sequence 14664, A	385	28	62.2	873	2	US-09-546-236-2	Sequence 2, Appl
313	28	62.2	210	2	US-09-248-796A-19343	Sequence 19343, A	386	28	62.2	873	2	US-09-546-236-2	Sequence 14, Appl
314	28	62.2	220	2	US-09-541-759-4	Sequence 4, Appl	387	28	62.2	894	2	US-09-538-092-14	Sequence 12, Appl
315	28	62.2	228	2	US-09-489-039A-11967	Sequence 11967, A	388	28	62.2	907	2	US-08-989-299-12	Sequence 12, Appl
316	28	62.2	266	2	US-09-134-000C-5984	Sequence 5984, Ap	389	28	62.2	907	2	US-09-407-427-12	Sequence 12, Appl
317	28	62.2	269	2	US-09-134-000C-5445	Sequence 5445, Ap	390	28	62.2	907	2	US-09-635-501-12	Sequence 21, Appl
318	28	62.2	281	2	US-09-902-540-16177	Sequence 16177, A	391	28	62.2	960	2	US-09-694-777A-21	Sequence 21, Appl
319	28	62.2	289	2	US-09-198-452A-728	Sequence 728, App	392	28	62.2	962	2	US-09-614-480-9	Sequence 9, Appl

333	28	62.2	962	2	US-09-694-777A-3	Sequence 3, Appl1	466	27	60.0	114	2	US-09-450-520A-10	Sequence 10, Appl1
334	28	62.2	962	2	US-10-422-075-9	Sequence 9, Appl1	467	27	60.0	114	2	US-09-450-520A-11	Sequence 11, Appl1
335	28	62.2	987	2	US-09-694-777A-22	Sequence 22, Appl1	468	27	60.0	122	2	US-09-902-540-11861	Sequence 11861, A
336	28	62.2	989	2	US-09-694-777A-4	Sequence 4, Appl1	469	27	60.0	129	2	US-09-621-976-4106	Sequence 4106, Ap
337	28	62.2	1006	2	US-09-949-016-8421	Sequence 8421, Ap	470	27	60.0	134	2	US-09-830-230A-676	Sequence 676, App
338	28	62.2	1006	2	US-09-949-016-8530	Sequence 8530, Ap	471	27	60.0	136	2	US-09-450-520A-8	Sequence 8, Appl1
339	28	62.2	1078	2	US-09-248-796A-20284	Sequence 20284, A	472	27	60.0	136	2	US-09-248-796A-27553	Sequence 27553, A
400	28	62.2	1092	2	US-09-252-991A-38476	Sequence 28476, A	473	27	60.0	140	2	US-09-248-796A-23981	Sequence 23981, A
401	28	62.2	1159	2	US-09-328-352-7624	Sequence 7624, Ap	474	27	60.0	143	2	US-09-601-729-4	Sequence 4, Appl1
402	28	62.2	1169	2	US-09-583-110-4409	Sequence 4409, Ap	475	27	60.0	143	2	US-09-513-999C-5233	Sequence 5233, Ap
403	28	62.2	1169	2	US-09-107-433-4847	Sequence 4847, Ap	476	27	60.0	143	2	US-09-513-999C-5234	Sequence 5234, Ap
404	28	62.2	1302	2	US-09-902-540C-14853	Sequence 14853, A	477	27	60.0	148	1	US-08-233-788A-43	Sequence 43, Appl1
405	28	62.2	1359	2	US-09-134-000C-6374	Sequence 6374, Ap	478	27	60.0	151	2	US-09-270-767-60577	Sequence 60577, A
406	28	62.2	1571	2	US-08-956-991-11	Sequence 11, Appl1	479	27	60.0	158	2	US-09-134-000C-3763	Sequence 3763, Ap
407	28	62.2	1693	2	US-08-840-316-1	Sequence 1, Appl1	480	27	60.0	161	2	US-09-134-000C-6162	Sequence 6162, Ap
408	28	62.2	1693	2	US-08-478-507-7	Sequence 7, Appl1	481	27	60.0	166	2	US-08-765-381-5	Sequence 5, Appl1
409	28	62.2	1693	2	US-08-809-523-1	Sequence 1, Appl1	482	27	60.0	172	2	US-09-830-230A-675	Sequence 675, App
410	28	62.2	1693	2	US-09-128-275A-7	Sequence 7, Appl1	483	27	60.0	182	2	US-09-248-796A-18016	Sequence 18016, A
411	28	62.2	1693	2	US-08-471-971-1	Sequence 1, Appl1	484	27	60.0	186	2	US-09-270-767-12220	Sequence 12220, A
412	28	62.2	1693	2	US-09-553-427-7	Sequence 7, Appl1	485	27	60.0	186	2	US-09-248-796A-14935	Sequence 14935, A
413	28	62.2	1693	2	US-09-402-776-1	Sequence 1, Appl1	486	27	60.0	187	2	US-09-830-230A-640	Sequence 640, App
414	28	62.2	1693	2	US-08-470-246-1	Sequence 1, Appl1	487	27	60.0	189	1	US-08-464-517-21	Sequence 21, Appl1
415	28	62.2	1693	2	US-08-316-765-1	Sequence 1, Appl1	488	27	60.0	189	1	US-08-246-361A-21	Sequence 21, Appl1
416	28	62.2	1693	2	US-09-724-475-1	Sequence 1, Appl1	489	27	60.0	189	2	US-08-463-772-21	Sequence 21, Appl1
417	28	62.2	1693	4	PCT-US93-08849A-1	Sequence 1, Appl1	490	27	60.0	189	4	PCT-US93-05000-21	Sequence 5, Appl1
418	28	62.2	1693	4	PCT-US93-08849-1	Sequence 1, Appl1	491	27	60.0	190	2	US-09-075-454-5	Sequence 4549, Ap
419	28	62.2	1695	2	US-09-866-108A-15753	Sequence 15753, A	492	27	60.0	190	2	US-09-328-352-4549	Sequence 24, Appl1
420	28	62.2	1780	2	US-09-949-016-6899	Sequence 6899, Ap	493	27	60.0	191	2	US-09-765-288A-24	Sequence 24, Appl1
421	28	62.2	1786	2	US-09-949-016-7880	Sequence 7880, Ap	494	27	60.0	192	2	US-09-370-950C-5	Sequence 5, Appl1
422	28	62.2	1835	2	US-08-836-325-15	Sequence 15, Appl1	495	27	60.0	192	2	US-09-709-103-52	Sequence 52, Appl1
423	28	62.2	1835	2	US-09-457-571-15	Sequence 15, Appl1	496	27	60.0	192	2	US-09-439-410A-52	Sequence 52, Appl1
424	28	62.2	1874	2	US-09-602-787A-46	Sequence 46, Appl1	497	27	60.0	192	2	US-10-418-036-25	Sequence 25, Appl1
425	28	62.2	1910	2	US-08-956-991-2	Sequence 2, Appl1	498	27	60.0	192	2	US-10-418-036-27	Sequence 27, Appl1
426	28	62.2	1969	2	US-08-836-325-16	Sequence 16, Appl1	499	27	60.0	204	2	US-09-949-016-6906	Sequence 8906, Ap
427	28	62.2	1969	2	US-09-457-571-16	Sequence 16, Appl1	500	27	60.0	206	1	US-08-155-171B-6	Sequence 6, Appl1
428	28	62.2	1977	2	US-09-976-59A-757	Sequence 757, App	501	27	60.0	206	1	US-08-435-998-6	Sequence 6, Appl1
429	28	62.2	1977	2	US-09-919-039-367	Sequence 367, App	502	27	60.0	206	2	US-09-902-540-10464	Sequence 10464, A
430	28	62.2	1984	2	US-08-836-325-10	Sequence 10, Appl1	503	27	60.0	208	2	US-09-830-230A-639	Sequence 639, App
431	28	62.2	1984	2	US-09-457-571-10	Sequence 10, Appl1	504	27	60.0	211	2	US-10-418-036-24	Sequence 24, Appl1
432	28	62.2	1989	2	US-08-836-325-11	Sequence 11, Appl1	505	27	60.0	215	2	US-09-248-796A-25276	Sequence 25276, A
433	28	62.2	1989	2	US-08-836-325-12	Sequence 12, Appl1	506	27	60.0	222	2	US-09-902-540-11682	Sequence 11682, A
434	28	62.2	1989	2	US-09-457-571-11	Sequence 11, Appl1	507	27	60.0	233	2	US-09-328-352-6059	Sequence 6059, Ap
435	28	62.2	1989	2	US-09-457-571-12	Sequence 12, Appl1	508	27	60.0	254	2	US-09-543-681A-4919	Sequence 4919, Ap
436	28	62.2	2468	2	US-09-976-59A-726	Sequence 726, App	509	27	60.0	257	2	US-09-248-796A-20922	Sequence 20922, A
437	28	62.2	2468	2	US-09-538-093-1135	Sequence 1135, Ap	510	27	60.0	263	2	US-09-543-681A-5138	Sequence 5138, Ap
438	28	62.2	2522	2	US-09-949-016-10237	Sequence 10237, A	511	27	60.0	264	2	US-09-198-452A-1122	Sequence 1122, Ap
439	28	62.2	26	2	US-09-270-767-56967	Sequence 56967, A	512	27	60.0	265	2	US-09-252-991A-20892	Sequence 20892, A
440	27	60.0	26	4	PCT-US91-02942-96	Sequence 96, Appl1	513	27	60.0	266	2	US-09-651-656-5	Sequence 5, Appl1
441	27	60.0	43	2	US-10-318-675-43	Sequence 43, Appl1	514	27	60.0	266	2	US-09-650-855-5	Sequence 5, Appl1
442	27	60.0	47	2	US-09-674-973A-144	Sequence 144, App	515	27	60.0	267	2	US-09-949-016-11163	Sequence 11163, A
443	27	60.0	50	4	PCT-US91-02942-55	Sequence 55, Appl1	516	27	60.0	267	2	US-09-949-016-11164	Sequence 11164, A
444	27	60.0	51	2	US-09-439-410A-97	Sequence 97, Appl1	517	27	60.0	269	2	US-09-438-185A-1048	Sequence 1048, Ap
445	27	60.0	60	2	US-09-270-767-32933	Sequence 32933, A	518	27	60.0	269	4	PCT-US93-05000-31	Sequence 31, Appl1
446	27	60.0	60	2	US-09-270-767-48150	Sequence 48150, A	519	27	60.0	271	2	US-09-543-681A-4336	Sequence 4336, Ap
447	27	60.0	73	2	US-10-125-258-115	Sequence 115, App	520	27	60.0	276	2	US-09-540-236-2364	Sequence 2364, Ap
448	27	60.0	75	2	US-09-252-991A-17080	Sequence 17080, A	521	27	60.0	288	2	US-09-107-433-18860	Sequence 4860, Ap
449	27	60.0	89	1	US-08-216-276A-27	Sequence 27, Appl1	522	27	60.0	289	1	US-08-246-361A-4	Sequence 4, Appl1
450	27	60.0	89	2	US-09-439-456-4	Sequence 4, Appl1	523	27	60.0	289	2	US-09-919-497-54	Sequence 54, Appl1
451	27	60.0	89	2	US-10-223-371B-4	Sequence 4, Appl1	524	27	60.0	289	2	US-09-949-016-6127	Sequence 6127, Ap
452	27	60.0	92	2	US-09-543-681A-7704	Sequence 7704, Ap	525	27	60.0	289	4	PCT-US93-05000-4	Sequence 4, Appl1
453	27	60.0	92	2	US-09-270-767-41722	Sequence 41722, A	526	27	60.0	294	2	US-09-543-681A-4622	Sequence 4622, Ap
454	27	60.0	96	2	US-10-125-258-113	Sequence 113, App	527	27	60.0	309	1	US-08-464-517-4	Sequence 4, Appl1
455	27	60.0	99	2	US-09-543-681A-5318	Sequence 5318, Ap	528	27	60.0	309	2	US-08-463-772-4	Sequence 4, Appl1
456	27	60.0	104	1	US-08-464-517-48	Sequence 48, Appl1	529	27	60.0	309	2	US-09-902-540-15963	Sequence 15963, A
457	27	60.0	104	1	US-08-246-361A-48	Sequence 48, Appl1	530	27	60.0	312	2	US-09-540-236-1963	Sequence 1963, Ap
458	27	60.0	104	2	US-08-463-772-48	Sequence 48, Appl1	531	27	60.0	316	2	US-09-248-796A-18556	Sequence 18556, A
459	27	60.0	107	2	US-09-513-999C-5713	Sequence 5713, Ap	532	27	60.0	317	2	US-09-248-796A-20568	Sequence 20568, A
460	27	60.0	108	2	US-09-543-681A-8059	Sequence 8059, Ap	533	27	60.0	318	2	US-09-134-000C-4417	Sequence 4417, Ap
461	27	60.0	113	1	US-08-248-839C-2	Sequence 2, Appl1	534	27	60.0	321	2	US-09-540-236-2082	Sequence 2082, Ap
462	27	60.0	113	1	US-08-248-839C-4	Sequence 4, Appl1	535	27	60.0	327	2	US-09-170-966D-8	Sequence 8, Appl1
463	27	60.0	113	1	US-08-248-839C-6	Sequence 6, Appl1	536	27	60.0	333	2	US-09-170-966D-168	Sequence 168, App
464	27	60.0	113	1	US-08-248-839C-8	Sequence 8, Appl1	537	27	60.0	333	2	US-09-826-509-509	Sequence 509, App
465	27	60.0	114	2	US-09-450-520A-9	Sequence 9, Appl1	538	27	60.0	333	2		

539	27	60.0	343	2	US-09-605-703B-2238	Sequence 2238, Ap	612	27	60.0	627	2	US-10-041-007-26	Sequence 26, Appl
540	27	60.0	346	2	US-09-540-236-2001	Sequence 2001, Ap	613	27	60.0	668	2	US-10-104-047-2308	Sequence 2308, Ap
541	27	60.0	352	2	US-09-301-665-2	Sequence 2, Appl1	614	27	60.0	674	2	US-09-107-532A-5134	Sequence 5134, Ap
542	27	60.0	352	2	US-09-933-386-4	Sequence 4, Appl1	615	27	60.0	673	2	US-09-328-352-8094	Sequence 8094, Ap
543	27	60.0	354	2	US-09-198-452A-1108	Sequence 1108, Ap	616	27	60.0	675	2	US-09-252-991A-32661	Sequence 32661, A
544	27	60.0	355	2	US-09-270-767-42551	Sequence 42551, A	617	27	60.0	685	2	US-10-104-047-2916	Sequence 2916, Ap
545	27	60.0	360	2	US-09-270-767-45079	Sequence 45079, A	618	27	60.0	703	2	US-09-252-991A-23905	Sequence 23905, A
546	27	60.0	370	1	US-08-231-342-6	Sequence 6, Appl1	619	27	60.0	704	2	US-09-248-796A-16001	Sequence 16001, A
547	27	60.0	370	2	US-09-639-576-9	Sequence 9, Appl1	620	27	60.0	739	2	US-09-543-661A-64371	Sequence 64371, Ap
548	27	60.0	374	2	US-09-902-540-16243	Sequence 16243, A	621	27	60.0	744	2	US-09-248-796A-20773	Sequence 20773, A
549	27	60.0	376	2	US-09-583-110-4214	Sequence 4214, Ap	622	27	60.0	752	2	US-10-104-047-1991	Sequence 1991, Ap
550	27	60.0	376	2	US-09-107-433-3233	Sequence 3233, Ap	623	27	60.0	778	2	US-09-792-024-112	Sequence 112, App
551	27	60.0	381	2	US-09-949-016-8020	Sequence 8020, Ap	624	27	60.0	833	2	US-09-543-661A-5857	Sequence 5857, Ap
552	27	60.0	388	2	US-10-104-047-2948	Sequence 2948, Ap	625	27	60.0	837	2	US-09-605-703B-2290	Sequence 2290, Ap
553	27	60.0	383	2	US-09-252-991A-25535	Sequence 25535, A	626	27	60.0	853	2	US-09-625-972-25	Sequence 25, Appl
554	27	60.0	383	2	US-09-134-000C-4139	Sequence 4139, Ap	627	27	60.0	858	2	US-09-248-796A-19055	Sequence 19055, A
555	27	60.0	386	2	US-09-248-796A-16810	Sequence 16810, A	628	27	60.0	929	2	US-09-134-000C-6424	Sequence 6424, Ap
556	27	60.0	392	2	US-09-948-796A-19946	Sequence 19946, A	629	27	60.0	962	2	US-09-694-777A-24	Sequence 24, Appl
557	27	60.0	393	2	US-09-393-858-2	Sequence 2, Appl1	630	27	60.0	989	2	US-09-694-777A-23	Sequence 23, Appl
558	27	60.0	393	2	US-10-190-279-2	Sequence 2, Appl1	631	27	60.0	1012	1	US-07-944-943-2	Sequence 2, Appl1
559	27	60.0	403	2	US-09-248-796A-20669	Sequence 20669, A	632	27	60.0	1012	1	US-08-216-276A-19	Sequence 19, Appl
560	27	60.0	403	2	US-09-248-796A-18939	Sequence 18939, A	633	27	60.0	1012	1	US-07-944-943-2	Sequence 2, Appl1
561	27	60.0	417	2	US-09-328-352-4812	Sequence 4812, Ap	634	27	60.0	1012	1	US-08-219-262B-1	Sequence 1, Appl1
562	27	60.0	422	2	US-09-107-532A-5796	Sequence 5796, Ap	635	27	60.0	1012	1	US-08-219-262B-2	Sequence 2, Appl1
563	27	60.0	431	2	US-09-489-039A-12679	Sequence 12679, A	636	27	60.0	1012	1	US-08-219-262B-3	Sequence 3, Appl1
564	27	60.0	436	2	US-09-393-858-5	Sequence 5, Appl1	637	27	60.0	1012	1	US-08-219-262B-4	Sequence 4, Appl1
565	27	60.0	436	2	US-09-583-110-3142	Sequence 3142, Ap	638	27	60.0	1012	1	US-08-219-262B-5	Sequence 5, Appl1
566	27	60.0	436	2	US-10-190-279-5	Sequence 5, Appl1	639	27	60.0	1012	1	US-08-219-262B-6	Sequence 6, Appl1
567	27	60.0	438	2	US-09-107-433-3092	Sequence 3092, Ap	640	27	60.0	1012	1	US-08-219-262B-7	Sequence 7, Appl1
568	27	60.0	442	2	US-09-270-767-59249	Sequence 59249, A	641	27	60.0	1012	1	US-08-219-262B-8	Sequence 8, Appl1
569	27	60.0	448	2	US-09-342-681C-17	Sequence 17, Appl	642	27	60.0	1012	1	US-08-219-262B-10	Sequence 10, Appl
570	27	60.0	453	2	US-09-342-681C-19	Sequence 19, Appl	643	27	60.0	1012	1	US-08-219-262B-12	Sequence 12, Appl
571	27	60.0	453	2	US-09-964-895-2	Sequence 2, Appl1	644	27	60.0	1012	1	US-08-708-541A-30	Sequence 30, Appl
572	27	60.0	453	2	US-09-964-895-17	Sequence 17, Appl	645	27	60.0	1012	1	US-08-708-541A-14	Sequence 14, Appl
573	27	60.0	458	2	US-09-568-470A-1	Sequence 1, Appl1	646	27	60.0	1012	2	US-09-031-655-1	Sequence 1, Appl1
574	27	60.0	464	2	US-09-711-164-430	Sequence 430, App	647	27	60.0	1012	2	US-09-031-655-2	Sequence 2, Appl1
575	27	60.0	470	2	US-10-200-012-35	Sequence 35, Appl	648	27	60.0	1012	2	US-09-031-655-3	Sequence 3, Appl1
576	27	60.0	473	2	US-09-701-896-2	Sequence 2, Appl1	649	27	60.0	1012	2	US-09-031-655-4	Sequence 4, Appl1
577	27	60.0	473	2	US-09-701-896-6	Sequence 6, Appl1	650	27	60.0	1012	2	US-09-031-655-5	Sequence 5, Appl1
578	27	60.0	473	2	US-09-701-896-6	Sequence 6, Appl1	651	27	60.0	1012	2	US-09-031-655-6	Sequence 6, Appl1
579	27	60.0	473	2	US-09-701-896-8	Sequence 8, Appl1	652	27	60.0	1012	2	US-09-031-655-7	Sequence 7, Appl1
580	27	60.0	480	2	US-09-252-991A-19726	Sequence 19726, A	653	27	60.0	1012	2	US-09-031-655-8	Sequence 8, Appl1
581	27	60.0	484	1	US-08-216-276A-17	Sequence 17, Appl	654	27	60.0	1012	2	US-09-031-655-9	Sequence 9, Appl1
582	27	60.0	490	2	US-09-438-185A-1034	Sequence 1034, Ap	655	27	60.0	1012	2	US-09-031-655-10	Sequence 10, Appl
583	27	60.0	490	2	US-10-104-047-2640	Sequence 2640, Ap	656	27	60.0	1012	2	US-09-031-655-11	Sequence 11, Appl
584	27	60.0	498	2	US-09-248-796A-26681	Sequence 26681, A	657	27	60.0	1012	2	US-09-031-655-12	Sequence 12, Appl
585	27	60.0	503	2	US-09-949-016-5886	Sequence 5886, Ap	658	27	60.0	1012	2	US-09-031-655-14	Sequence 14, Appl
586	27	60.0	506	2	US-09-489-039A-8941	Sequence 8941, Ap	659	27	60.0	1013	2	US-09-147-771-30	Sequence 30, Appl
587	27	60.0	507	2	US-09-328-352-4291	Sequence 4291, Ap	660	27	60.0	1013	1	US-08-708-541A-34	Sequence 34, Appl
588	27	60.0	509	2	US-09-270-767-43848	Sequence 43848, A	661	27	60.0	1013	1	US-09-147-771-34	Sequence 34, Appl
589	27	60.0	512	2	US-09-949-016-16061	Sequence 16061, A	662	27	60.0	1034	2	US-10-104-047-2343	Sequence 2343, Ap
590	27	60.0	515	2	US-09-489-039A-8570	Sequence 8570, Ap	663	27	60.0	1165	2	US-09-248-796A-15028	Sequence 15028, A
591	27	60.0	530	1	US-08-307-899-29	Sequence 29, Appl	664	27	60.0	1184	1	US-09-902-540-12897	Sequence 12897, A
592	27	60.0	530	2	US-09-289-268-29	Sequence 29, Appl	665	27	60.0	1184	2	US-08-918-914-1	Sequence 1, Appl1
593	27	60.0	534	2	US-09-252-991A-30725	Sequence 30725, A	666	27	60.0	1184	2	US-08-996-083-3	Sequence 3, Appl1
594	27	60.0	537	2	US-09-252-991A-31581	Sequence 31581, A	667	27	60.0	1184	2	US-09-991-181-124	Sequence 124, App
595	27	60.0	540	2	US-09-134-000C-3745	Sequence 3745, Ap	668	27	60.0	1184	2	US-09-990-444-124	Sequence 124, App
596	27	60.0	543	2	US-09-540-236-3630	Sequence 3630, Ap	669	27	60.0	1184	2	US-09-997-333-124	Sequence 124, App
597	27	60.0	543	2	US-09-252-991A-23143	Sequence 23143, A	670	27	60.0	1184	2	US-09-992-598-124	Sequence 124, App
598	27	60.0	546	2	US-09-270-767-45293	Sequence 45293, A	671	27	60.0	1278	2	US-09-604-957-3	Sequence 3, Appl1
599	27	60.0	547	2	US-09-538-092-660	Sequence 660, App	672	27	60.0	1341	2	US-09-662-254B-20	Sequence 20, Appl
600	27	60.0	587	2	US-08-714-741-42	Sequence 42, Appl	673	27	60.0	1495	2	US-09-949-016-9652	Sequence 9652, Ap
601	27	60.0	593	2	US-09-605-703B-2050	Sequence 2050, Ap	674	27	60.0	1495	2	US-10-037-417-111	Sequence 111, App
602	27	60.0	602	2	US-09-540-236-3263	Sequence 3263, Ap	675	27	60.0	1729	2	US-09-134-000C-5675	Sequence 5675, Ap
603	27	60.0	609	2	US-09-270-767-46418	Sequence 46418, A	676	27	60.0	1781	2	US-09-995-749A-2	Sequence 2, Appl1
604	27	60.0	627	2	US-09-360-545-2	Sequence 2, Appl1	677	27	60.0	1874	2	US-09-331-403-2	Sequence 2, Appl1
605	27	60.0	627	2	US-09-360-545-32	Sequence 32, Appl	678	27	60.0	2004	2	US-09-538-092-1371	Sequence 1371, Ap
606	27	60.0	627	2	US-09-398-395A-30	Sequence 30, Appl	679	27	60.0	2004	2	US-09-949-016-6756	Sequence 6756, Ap
607	27	60.0	627	2	US-09-887-586A-30	Sequence 30, Appl	680	27	60.0	2079	2	US-09-949-016-8301	Sequence 8301, Ap
608	27	60.0	627	2	US-09-895-752-30	Sequence 30, Appl	681	27	60.0	2167	2	US-09-487-558B-56	Sequence 56, Appl
609	27	60.0	627	2	US-09-903-012B-30	Sequence 30, Appl	682	27	60.0	2183	1	US-08-348-891A-7	Sequence 7, Appl1
610	27	60.0	627	2	US-09-900-797-30	Sequence 30, Appl	683	27	60.0	2504	1	US-08-905-817-7	Sequence 7, Appl1
611	27	60.0	627	2	US-09-893-820-30	Sequence 30, Appl	684	27	60.0	2504	2	US-09-328-352-5821	Sequence 5821, Ap

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687	27	60.0	4376	2	US-09-949-016-6978	Sequence 6978, Ap	760	26	57.8	162	2	US-09-270-767-58287	Sequence 58287, A
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689	27	60.0	4536	2	US-09-079-030-1	Sequence 1, Appl1	762	26	57.8	166	2	US-09-270-767-56362	Sequence 56362, A
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691	27	60.0	4563	2	US-09-538-092-842	Sequence 842, App	764	26	57.8	173	2	US-08-937-271-15	Sequence 15, Appl1
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693	26.5	58.9	438	2	US-09-543-681A-8247	Sequence 8247, Ap	766	26	57.8	178	2	US-09-583-110-4001	Sequence 4001, Ap
694	26	57.8	9	2	US-09-344-040C-21	Sequence 21, Appl1	767	26	57.8	181	2	US-09-248-796A-27780	Sequence 27780, A
695	26	57.8	9	2	US-09-833-039A-21	Sequence 21, Appl1	768	26	57.8	182	2	US-09-325-932A-180	Sequence 180, App
696	26	57.8	9	2	US-09-408-036B-29	Sequence 29, Appl1	769	26	57.8	186	2	US-09-902-540-13998	Sequence 1398, A
697	26	57.8	15	2	US-08-914-479A-7	Sequence 7, Appl1	770	26	57.8	186	1	US-08-565-386-7	Sequence 7, Appl1
698	26	57.8	20	2	US-09-344-624-27	Sequence 27, Appl1	771	26	57.8	186	2	US-08-655-352-8	Sequence 8, Appl1
699	26	57.8	35	2	US-10-023-217A-22	Sequence 22, Appl1	772	26	57.8	186	2	US-09-258-016-8	Sequence 8, Appl1
700	26	57.8	43	2	US-10-318-675-46	Sequence 46, Appl1	773	26	57.8	186	2	US-09-257-825B-8	Sequence 8, Appl1
701	26	57.8	55	2	US-09-358-569D-11	Sequence 11, Appl1	774	26	57.8	186	2	US-09-583-110-4511	Sequence 4511, Ap
702	26	57.8	60	2	US-09-543-681A-4823	Sequence 4823, Ap	775	26	57.8	186	2	US-09-769-787-105	Sequence 105, App
703	26	57.8	61	2	US-09-543-681A-5073	Sequence 5073, Ap	776	26	57.8	187	2	US-08-937-271-8	Sequence 8, Appl1
704	26	57.8	64	2	US-09-107-433-2916	Sequence 2916, Ap	777	26	57.8	188	2	US-09-392-714-28	Sequence 28, Appl1
705	26	57.8	64	2	US-09-248-796A-23822	Sequence 23822, A	778	26	57.8	189	2	US-09-270-767-32341	Sequence 32341, A
706	26	57.8	67	2	US-08-937-271-20	Sequence 20, Appl1	779	26	57.8	189	2	US-09-270-767-77558	Sequence 77558
707	26	57.8	67	2	US-09-270-767-36147	Sequence 36147, A	780	26	57.8	190	2	US-09-583-110-2680	Sequence 2680, Ap
708	26	57.8	67	2	US-09-270-767-51364	Sequence 51364, A	781	26	57.8	190	2	US-09-583-110-3259	Sequence 3259, Ap
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711	26	57.8	82	2	US-09-270-767-55962	Sequence 55962, A	784	26	57.8	190	2	US-09-583-110-3946	Sequence 3946, Ap
712	26	57.8	86	2	US-09-270-767-57687	Sequence 57687, A	785	26	57.8	190	2	US-09-583-110-5202	Sequence 5202, Ap
713	26	57.8	89	2	US-09-107-433-2916	Sequence 2916, Ap	786	26	57.8	191	2	US-09-107-433-2915	Sequence 2915, Ap
714	26	57.8	89	2	US-09-107-433-2914	Sequence 2914, Ap	787	26	57.8	191	2	US-10-376-397B-18	Sequence 18, Appl1
715	26	57.8	89	2	US-09-107-433-2982	Sequence 2982, Ap	788	26	57.8	198	2	US-09-107-433-3068	Sequence 4068, Ap
716	26	57.8	91	2	US-09-583-110-2906	Sequence 2906, Ap	789	26	57.8	203	2	US-09-134-001C-3111	Sequence 3111, Ap
717	26	57.8	94	2	US-09-107-532A-5065	Sequence 5065, Ap	790	26	57.8	205	2	US-08-953-326-23	Sequence 23, Appl1
718	26	57.8	96	2	US-09-107-433-4144	Sequence 4144, Ap	791	26	57.8	205	2	US-09-353-662-23	Sequence 23, Appl1
719	26	57.8	97	1	US-08-479-078-2	Sequence 2, Appl1	792	26	57.8	205	2	US-10-062-994-23	Sequence 23, Appl1
720	26	57.8	97	2	US-09-248-796A-24838	Sequence 24838, A	793	26	57.8	218	2	US-09-508-710-12	Sequence 12, Appl1
721	26	57.8	99	2	US-09-107-433-3591	Sequence 3591, Ap	794	26	57.8	225	2	US-09-270-767-744807	Sequence 44807, A
722	26	57.8	105	2	US-09-270-767-46737	Sequence 46737, A	795	26	57.8	228	2	US-09-248-796A-20501	Sequence 20501, A
723	26	57.8	105	2	US-09-107-433-3874	Sequence 3874, Ap	796	26	57.8	228	2	US-09-270-767-44141	Sequence 44141, A
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726	26	57.8	108	2	US-09-513-999C-5164	Sequence 5164, Ap	799	26	57.8	239	2	US-09-543-681A-6888	Sequence 6888, Ap
727	26	57.8	109	2	US-09-328-352-4485	Sequence 4485, Ap	800	26	57.8	240	2	US-09-134-001C-5098	Sequence 5098, Ap
728	26	57.8	113	2	US-09-710-279-3282	Sequence 3282, Ap	801	26	57.8	242	2	US-08-937-271-4	Sequence 4, Appl1
729	26	57.8	113	2	US-09-640-211A-660	Sequence 660, App	802	26	57.8	247	2	US-08-937-271-13	Sequence 13, Appl1
730	26	57.8	115	2	US-09-640-211A-2127	Sequence 2127, Ap	803	26	57.8	254	2	US-08-914-479A-4	Sequence 4, Appl1
731	26	57.8	115	2	US-10-142-835-32	Sequence 14, Appl1	804	26	57.8	254	2	US-09-270-767-42398	Sequence 42398, A
732	26	57.8	118	2	US-09-098-789-14	Sequence 14, Appl1	805	26	57.8	259	2	US-09-583-110-3996	Sequence 3996, Ap
733	26	57.8	118	2	US-09-270-767-40655	Sequence 40655, A	806	26	57.8	261	2	US-09-134-001C-5020	Sequence 5020, Ap
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735	26	57.8	118	2	US-09-270-767-56654	Sequence 56654, A	808	26	57.8	266	2	US-09-107-433-3925	Sequence 3925, Ap
736	26	57.8	120	2	US-09-270-767-41433	Sequence 41433, A	809	26	57.8	267	2	US-09-543-681A-8207	Sequence 8207, Ap
737	26	57.8	122	2	US-09-149-476-596	Sequence 3014, Ap	810	26	57.8	268	2	US-09-270-767-42961	Sequence 42961, A
738	26	57.8	123	2	US-09-134-001C-3014	Sequence 3014, App	811	26	57.8	273	2	US-09-949-016-6927	Sequence 6927, Ap
739	26	57.8	123	2	US-09-583-110-5011	Sequence 5011, Ap	812	26	57.8	273	2	US-09-134-001C-3641	Sequence 3641, Ap
740	26	57.8	135	2	US-08-937-271-22	Sequence 22, Appl1	813	26	57.8	274	2	US-08-937-271-6	Sequence 6, Appl1
741	26	57.8	136	2	US-09-830-230A-46	Sequence 46, Appl1	814	26	57.8	275	2	US-09-328-352-7382	Sequence 7382, Ap
742	26	57.8	137	2	US-09-367-953B-113	Sequence 113, App	815	26	57.8	276	2	US-09-134-000C-4207	Sequence 4207, Ap
743	26	57.8	139	2	US-09-367-953B-116	Sequence 116, App	816	26	57.8	280	2	US-09-248-796A-20485	Sequence 20485, A
744	26	57.8	140	2	US-09-270-767-32498	Sequence 32498, A	817	26	57.8	284	2	US-08-914-479A-6	Sequence 6, Appl1
745	26	57.8	140	2	US-09-270-767-47715	Sequence 47715, A	818	26	57.8	284	2	US-09-540-326-1925	Sequence 1925, Ap
746	26	57.8	140	2	US-09-830-230A-534	Sequence 534, App	819	26	57.8	284	2	US-09-248-796A-19606	Sequence 19606, A
747	26	57.8	141	2	US-10-104-047-3225	Sequence 3225, Ap	820	26	57.8	287	2	US-08-937-271-2	Sequence 2, Appl1
748	26	57.8	142	2	US-09-570-921-43	Sequence 43, Appl1	821	26	57.8	290	2	US-09-710-279-3024	Sequence 3024, Ap
749	26	57.8	142	2	US-09-489-039A-11161	Sequence 11161, A	822	26	57.8	290	2	US-09-710-279-3252	Sequence 3252, Ap
750	26	57.8	149	2	US-09-733-210-1092	Sequence 1092, Ap	823	26	57.8	293	1	US-08-628-291-4	Sequence 4, Appl1
751	26	57.8	150	2	US-09-248-796A-18559	Sequence 18559, A	824	26	57.8	293	1	US-09-128-722-4	Sequence 4, Appl1
752	26	57.8	153	2	US-09-328-352-7034	Sequence 7034, Ap	825	26	57.8	295	2	US-09-248-796A-15656	Sequence 15656, A
753	26	57.8	155	2	US-09-830-230A-45	Sequence 45, Appl1	826	26	57.8	295	2	US-09-134-001C-3777	Sequence 3777, Ap
754	26	57.8	158	2	US-09-830-230A-533	Sequence 533, App	827	26	57.8	295	6	5223394-9	Patent No. 5223394
755	26	57.8	158	2	US-09-248-796A-25332	Sequence 25332, A	828	26	57.8	298	2	US-09-134-000C-5114	Sequence 5114, Ap
756	26	57.8	159	1	US-08-606-143-45	Sequence 45, Appl1	829	26	57.8	300	2	US-09-091-501B-11	Sequence 11, Appl1
757	26	57.8	159	2	US-09-270-767-45634	Sequence 45634, A	830	26	57.8	300	2	US-09-091-501B-12	Sequence 12, Appl1

831	26	57.8	300	2	US-09-091-501B-13	Sequence 13, Appl	904	26	57.8	422	2	US-09-107-433-4823	Sequence 4823, Ap
832	26	57.8	302	2	US-09-328-352-6911	Sequence 6911, Ap	905	26	57.8	431	2	US-09-489-039A-12670	Sequence 12670, A
833	26	57.8	305	2	US-08-937-271-10	Sequence 10, Appl	906	26	57.8	433	1	US-08-867-149-1	Sequence 1, Appl
834	26	57.8	306	2	US-08-270-767-34454	Sequence 34454, A	907	26	57.8	433	1	US-08-808-374-1	Sequence 1, Appl
835	26	57.8	306	2	US-09-270-767-49671	Sequence 49671, A	908	26	57.8	433	2	US-09-100-409A-1	Sequence 1, Appl
836	26	57.8	306	2	US-09-248-796A-23666	Sequence 23666, A	909	26	57.8	433	6	5171638-13	Patent No. 5171638
837	26	57.8	307	2	US-09-902-540-13955	Sequence 13955, A	910	26	57.8	434	1	US-08-236-311-4	Sequence 4, Appl
838	26	57.8	308	2	US-09-328-352-6762	Sequence 6762, Ap	911	26	57.8	434	2	US-08-457-918-4	Sequence 4, Appl
839	26	57.8	310	2	US-09-602-787A-662	Sequence 662, App	912	26	57.8	434	2	US-10-157-408-4	Sequence 4, Appl
840	26	57.8	311	2	US-09-583-110-4119	Sequence 4119, Ap	913	26	57.8	447	2	US-09-949-016-10534	Sequence 10534, A
841	26	57.8	311	2	US-09-107-413-2862	Sequence 2862, Ap	914	26	57.8	449	2	US-09-543-681A-6546	Sequence 6546, Ap
842	26	57.8	312	2	US-08-821-872-2	Sequence 2, Appl	915	26	57.8	453	1	US-08-132-990A-6	Sequence 6, Appl
843	26	57.8	312	2	US-09-107-532A-6621	Sequence 6621, Ap	916	26	57.8	453	4	PCT-US92-09382-6	Sequence 6, Appl
844	26	57.8	312	2	US-09-248-796A-15104	Sequence 15104, A	917	26	57.8	457	2	US-08-328-500-9	Sequence 9, Appl
845	26	57.8	315	2	US-09-149-476-458	Sequence 458, App	918	26	57.8	457	2	US-09-039-555B-15	Sequence 15, Appl
846	26	57.8	317	1	US-08-628-291-12	Sequence 12, Appl	919	26	57.8	458	2	US-08-466-368-4	Sequence 4, Appl
847	26	57.8	317	1	US-09-128-722-12	Sequence 12, Appl	920	26	57.8	458	2	US-09-517-605-3	Sequence 3, Appl
848	26	57.8	318	2	US-09-107-532A-6446	Sequence 6446, Ap	921	26	57.8	458	2	US-10-092-138A-25	Sequence 25, Appl
849	26	57.8	318	2	US-09-489-039A-9708	Sequence 9708, Ap	922	26	57.8	458	2	US-08-681-219A-25	Sequence 25, Appl
850	26	57.8	318	6	5223394-11	Patent No. 5223394	923	26	57.8	458	6	5223394-7	Patent No. 5223394
851	26	57.8	324	2	US-09-248-796A-15787	Sequence 15787, A	924	26	57.8	462	1	US-08-417-495-5	Sequence 5, Appl
852	26	57.8	329	2	US-09-071-035-368	Sequence 368, App	925	26	57.8	462	1	US-08-284-391B-5	Sequence 5, Appl
853	26	57.8	329	2	US-10-206-576-368	Sequence 368, App	926	26	57.8	462	2	US-09-218-950-6	Sequence 5, Appl
854	26	57.8	333	2	US-09-328-352-6387	Sequence 6387, Ap	927	26	57.8	462	2	US-08-394-388A-5	Sequence 5, Appl
855	26	57.8	335	2	US-09-134-000C-4044	Sequence 4044, Ap	928	26	57.8	462	4	PCT-US92-01785-5	Sequence 5, Appl
856	26	57.8	343	2	US-08-937-271-17	Sequence 17, Appl	929	26	57.8	462	4	PCT-US95-00454-5	Sequence 5, Appl
857	26	57.8	346	1	US-08-401-068-8	Sequence 8, Appl	930	26	57.8	473	2	US-09-248-796A-14695	Sequence 14695, A
858	26	57.8	346	1	US-08-446-338-8	Sequence 8, Appl	931	26	57.8	475	2	US-09-107-433-4883	Sequence 4883, Ap
859	26	57.8	346	2	US-08-411-768B-2	Sequence 2, Appl	932	26	57.8	480	2	US-09-107-433-4883	Sequence 7877, Ap
860	26	57.8	348	2	US-09-071-035-52	Sequence 52, Appl	933	26	57.8	480	1	US-08-655-114-2	Sequence 2, Appl
861	26	57.8	348	2	US-10-206-576-52	Sequence 52, Appl	934	26	57.8	481	1	US-08-818-857-2	Sequence 2, Appl
862	26	57.8	351	2	US-09-614-912-8	Sequence 8, Appl	935	26	57.8	481	2	US-09-398-165-2	Sequence 2, Appl
863	26	57.8	357	2	US-09-071-035-366	Sequence 366, App	936	26	57.8	481	2	US-08-948-559-2	Sequence 2, Appl
864	26	57.8	357	2	US-09-248-796A-15519	Sequence 15519, A	937	26	57.8	484	2	US-09-583-110-3997	Sequence 3997, Ap
865	26	57.8	357	2	US-10-206-576-366	Sequence 366, App	938	26	57.8	484	2	US-09-107-433-4661	Sequence 4661, Ap
866	26	57.8	359	2	US-09-134-000C-4630	Sequence 4630, Ap	939	26	57.8	486	2	US-09-147-522-6	Sequence 6, Appl
867	26	57.8	362	2	US-09-552-991A-30626	Sequence 30626, A	940	26	57.8	486	2	US-09-147-522-6	Sequence 6, Appl
868	26	57.8	364	2	US-08-991-322-6	Sequence 6, Appl	941	26	57.8	489	2	US-09-252-991A-27833	Sequence 27833, A
869	26	57.8	364	1	US-09-277-019-6	Sequence 6, Appl	942	26	57.8	490	1	US-08-201-118-3	Sequence 3, Appl
870	26	57.8	366	1	US-08-605-106-11	Sequence 11, Appl	943	26	57.8	490	1	US-08-238-821B-3	Sequence 9, Appl
871	26	57.8	368	2	US-09-614-912-4	Sequence 4, Appl	944	26	57.8	490	1	US-08-238-821B-9	Sequence 9, Appl
872	26	57.8	368	2	US-09-248-796A-25427	Sequence 25427, A	945	26	57.8	490	2	US-09-949-016-5990	Sequence 5990, Ap
873	26	57.8	370	2	US-09-614-912-2	Sequence 2, Appl	946	26	57.8	490	2	PCT-US95-05744-3	Sequence 3, Appl
874	26	57.8	374	2	US-08-982-493-6	Sequence 6, Appl	947	26	57.8	490	4	PCT-US95-05744-9	Sequence 9, Appl
875	26	57.8	374	2	US-09-071-035-50	Sequence 50, Appl	948	26	57.8	492	2	US-09-248-796A-14913	Sequence 14913, A
876	26	57.8	374	2	US-10-206-576-50	Sequence 50, Appl	949	26	57.8	493	2	US-09-090-808-4	Sequence 4, Appl
877	26	57.8	374	1	US-08-477-451-28	Sequence 28, Appl	950	26	57.8	493	2	US-09-447-453-4	Sequence 4, Appl
878	26	57.8	382	1	US-09-134-000C-3829	Sequence 3829, Ap	951	26	57.8	503	1	US-08-481-337A-2	Sequence 2, Appl
879	26	57.8	382	2	US-09-448-796A-22988	Sequence 22988, A	952	26	57.8	503	1	US-08-696-268B-2	Sequence 2, Appl
880	26	57.8	383	2	US-09-489-039A-12482	Sequence 12482, A	953	26	57.8	503	2	US-09-382-258-2	Sequence 2, Appl
881	26	57.8	383	2	US-09-151-409-16	Sequence 16, Appl	954	26	57.8	503	2	US-09-395-115-2	Sequence 2, Appl
882	26	57.8	384	2	US-09-134-000C-4692	Sequence 4692, Ap	955	26	57.8	503	2	US-08-436-265-2	Sequence 2, Appl
883	26	57.8	385	2	US-09-248-796A-14377	Sequence 14377, A	956	26	57.8	503	2	US-09-679-187-2	Sequence 2, Appl
884	26	57.8	389	2	US-09-949-016-10162	Sequence 10162, A	957	26	57.8	503	2	US-08-448-371A-2	Sequence 2, Appl
885	26	57.8	392	2	US-09-270-767-45678	Sequence 45678, A	958	26	57.8	503	2	US-09-267-963D-2	Sequence 2, Appl
886	26	57.8	394	2	US-08-466-368-2	Sequence 2, Appl	959	26	57.8	503	2	US-09-583-110-3357	Sequence 3357, Ap
887	26	57.8	394	2	US-08-328-500-2	Sequence 2, Appl	960	26	57.8	503	4	PCT-US94-1138A-4	Sequence 4, Appl
888	26	57.8	394	2	US-09-248-796A-17011	Sequence 17011, A	961	26	57.8	503	4	PCT-US95-05467-2	Sequence 25, Appl
889	26	57.8	394	6	5223418-2	Patent No. 5223418	962	26	57.8	506	6	US-08-942-012B-25	Patent No. 5180581
890	26	57.8	398	1	US-08-284-391B-29	Sequence 29, Appl	963	26	57.8	506	6	5180581-2	Sequence 5261, Ap
891	26	57.8	398	1	US-09-218-950-29	Sequence 29, Appl	964	26	57.8	513	2	US-09-107-532A-5861	Sequence 18734, A
892	26	57.8	398	2	US-08-394-388A-29	Sequence 29, Appl	965	26	57.8	519	2	US-09-248-796A-18734	Sequence 19293, A
893	26	57.8	399	2	US-09-489-039A-7814	Sequence 7814, Ap	966	26	57.8	519	2	US-09-248-796A-19293	Sequence 4, Appl
894	26	57.8	402	1	US-08-236-311-1	Sequence 1, Appl	967	26	57.8	521	2	US-09-370-368-4	Sequence 39512, A
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896	26	57.8	402	2	US-10-157-408-1	Sequence 1, Appl	969	26	57.8	524	2	US-09-921-181-264	Sequence 264, App
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898	26	57.8	409	2	US-10-272-490-52	Sequence 52, Appl	971	26	57.8	524	2	US-09-997-333-264	Sequence 264, App
899	26	57.8	419	2	US-09-240-936-2	Sequence 2, Appl	972	26	57.8	524	2	US-09-992-598-264	Sequence 264, App
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901	26	57.8	419	2	US-09-248-796A-17982	Sequence 17982, A	974	26	57.8	526	2	US-09-949-016-6263	Sequence 6263, Ap
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903	26	57.8	420	2	US-10-104-047-2007	Sequence 2007, Ap	976	26	57.8	532	1	US-08-417-495-6	Sequence 6, Appl

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978 26 57.8 532 2 US-09-218-950-6 Sequence 6, Appli  
979 26 57.8 532 2 US-08-394-388A-6 Sequence 6, Appli  
980 26 57.8 532 4 PCT-US92-01785-6 Sequence 6, Appli  
981 26 57.8 532 4 PCT-US95-00454-6 Sequence 6, Appli  
982 26 57.8 536 2 US-10-104-047-2780 Sequence 2780, Ap  
983 26 57.8 543 2 US-08-426-509A-14 Sequence 14, Appl  
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985 26 57.8 543 2 US-09-470-881-8 Sequence 8, Appli  
986 26 57.8 543 2 US-09-538-092-870 Sequence 870, App  
987 26 57.8 543 2 US-09-977-261-14 Sequence 14, Appl  
988 26 57.8 543 4 PCT-US95-05008-14 Sequence 2, Appli  
989 26 57.8 550 2 US-09-166-460-2 Sequence 5, Appli  
990 26 57.8 550 2 US-09-166-460-5 Sequence 7, Appli  
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992 26 57.8 550 2 US-09-166-460-9 Sequence 11, Appl  
993 26 57.8 550 2 US-09-166-460-11 Sequence 13, Appl  
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998 26 57.8 550 2 US-09-166-460-20 Sequence 21, Appl  
999 26 57.8 550 2 US-09-166-460-21 Sequence 22, Appl  
1000 26 57.8 550 2 US-09-166-460-22

## ALIGNMENTS

RESULT 1  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.  
APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247,904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10  
Query Match 100.0%; Score 45; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DTLEKLTNT 9  
Db 88 DTLEKLTNT 96

RESULT 2  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Cottarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767,942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19  
Query Match 100.0%; Score 45; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.31;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Cy 1 DTLEKLTNT 9  
Db 88 DTLEKLTNT 96  
RESULT 3  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Boursnell, Michael E.  
APPLICANT: Inglis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco

STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 45; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.56;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 89 DTLEKLTNT 97

RESULT 4  
US-09-485-885-21  
Sequence 21, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Benchelkn, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 45; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.58;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 199 DTLEKLTNT 207

RESULT 5  
US-09-485-885-23  
Sequence 23, Application US/09485885  
Patent No. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabazon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Benchelkn, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 45; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.82;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 199 DTLEKLTNT 207

RESULT 6  
US-08-159-339A-1173  
Sequence 1173, Application US/08159339A  
Patent No. 6037135  
GENERAL INFORMATION:  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Esteban  
TITLE OF INVENTION: HLA Binding peptides and Their  
TITLE OF INVENTION: Uses  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESS: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993



APPLICATION NUMBER: US 08/103,396  
FILING DATE: 06-AUG-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Weber, Ellen Lauver  
REGISTRATION NUMBER: 32,762  
REFERENCE/DOCKET NUMBER: 018623-005030US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 576-0200  
TELEFAX: (415) 576-0300  
TELEX:  
INFORMATION FOR SEQ ID NO: 1173:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 11 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-159-339A-1173

Query Match 86.7%; Score 39; DB 2; Length 11;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
Db 1 TLEKLTNT 8

RESULT 7  
US-07-683-957B-3  
Sequence 3, Application US/07683957B  
Patent No. 5310880  
GENERAL INFORMATION:  
APPLICANT: Donahoe, Patricia K.  
APPLICANT: Ragin, Richard C.  
APPLICANT: MacLaughlin, David T.  
TITLE OF INVENTION: Purification of M llerian Inhibiting  
TITLE OF INVENTION: Substance  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sterne, Kessler, Goldstein & Fox  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/683,957B  
FILING DATE: 19910412  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldstein, Jorge A.  
REGISTRATION NUMBER: 29,021  
REFERENCE/DOCKET NUMBER: 0609.3060000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 466-0800  
TELEFAX: (202) 833-8716  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 553 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-683-957B-3

Query Match 84.4%; Score 38; DB 1; Length 553;  
Best Local Similarity 77.8%; Pred. No. 28;  
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 23 DTLEKLTNT 31

RESULT 8  
US-09-107-433-4010  
Sequence 4010, Application US/09107433  
Patent No. 6800744  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOS  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 4010:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 180 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...180  
SEQUENCE DESCRIPTION: SEQ ID NO: 4010:  
US-09-107-433-4010

Query Match 77.8%; Score 35; DB 2; Length 180;  
Best Local Similarity 87.5%; Pred. No. 31;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
Db 159 TLEKLTNT 166

RESULT 9  
US-08-961-083-6  
Sequence 6, Application US/08961083  
Patent No. 6159469  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.





Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
Db 228 TLEKLSNT 235

## RESULT 12

US-09-765-272A-6

; Sequence 6, Application US/09765272A  
; Patent No. 6929930

GENERAL INFORMATION:

APPLICANT: Choi et. al.

TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines

NUMBER OF SEQUENCES: 454

CORRESPONDENCE ADDRESS:

ADDRESSEE: Human Genome Sciences, Inc.

CITY: Rockville

STATE: Maryland

COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage

COMPUTER: Dell Latitude C610

OPERATING SYSTEM: Windows 2000

SOFTWARE: ASCII Text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/765,272A

FILING DATE: 22-Jan-2001

CLASSIFICATION: &lt;Unknown&gt;

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/961,083

FILING DATE: OCT-30-1997

ATTORNEY/AGENT INFORMATION:

NAME: Lin J. Hymel

REGISTRATION NUMBER: 45,414

REFERENCE/DOCKET NUMBER: PB340P2C2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 610-5790

TELEFAX: (301) 309-8439

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 249 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Query Match 77.8%; Score 35; DB 2; Length 249;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
Db 228 TLEKLSNT 235

## RESULT 13

US-08-961-083-226

; Sequence 226, Application US/08961083  
; Patent No. 6159469

GENERAL INFORMATION:

APPLICANT: Choi et. al.

TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines

NUMBER OF SEQUENCES: 452

CORRESPONDENCE ADDRESS:

ADDRESSEE: Human Genome Sciences, Inc.

STREET: 9410 Key West Avenue

CITY: Rockville  
STATE: Maryland  
COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage

COMPUTER: HP Vectra 486/33

OPERATING SYSTEM: MSDOS version 6.2

SOFTWARE: ASCII Text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/961,083

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Brookes, A. Anders

REGISTRATION NUMBER: 36,373

REFERENCE/DOCKET NUMBER: PB340P2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 309-8504

TELEFAX: (301) 309-8512

INFORMATION FOR SEQ ID NO: 226:

SEQUENCE CHARACTERISTICS:

LENGTH: 250 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
Db 229 TLEKLSNT 236

## RESULT 14

US-09-536-784-226

; Sequence 226, Application US/09536784  
; Patent No. 6573082

GENERAL INFORMATION:

APPLICANT: Choi et. al.

TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines

NUMBER OF SEQUENCES: 452

CORRESPONDENCE ADDRESS:

ADDRESSEE: Human Genome Sciences, Inc.

STREET: 9410 Key West Avenue

CITY: Rockville

STATE: Maryland

COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage

COMPUTER: HP Vectra 486/33

OPERATING SYSTEM: MSDOS version 6.2

SOFTWARE: ASCII Text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/536,784

FILING DATE: 30-Oct-1997

CLASSIFICATION: &lt;Unknown&gt;

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/961,083

FILING DATE: OCT-30-1997

ATTORNEY/AGENT INFORMATION:

NAME: Michelle S. Marks

REGISTRATION NUMBER: 41,971

REFERENCE/DOCKET NUMBER: PB340P3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 226:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 250 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 226:  
US-09-536-784-226

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TELEKNT 9  
|||||:  
Db 229 TELEKNT 236

RESULT 15  
US-09-765-271-226  
Sequence 226, Application US/09765271  
Patent No. 6887663  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,271  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/536,784  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Michelle S. Marks  
REGISTRATION NUMBER: 41,971  
REFERENCE/DOCKET NUMBER: PB340P3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 226:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 250 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 226:  
US-09-765-271-226

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TELEKNT 9  
|||||:  
Db 229 TELEKNT 236

Db 229 TELEKNT 236

RESULT 16  
US-09-765-272A-226  
Sequence 226, Application US/09765272A  
Patent No. 6929930  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 454  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
COMPUTER: Dell Latitude C610  
OPERATING SYSTEM: Windows 2000  
SOFTWARE: ASCII text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,272A  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/961,083  
FILING DATE: OCT-30-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ian J. Hymel  
REGISTRATION NUMBER: 45,414  
REFERENCE/DOCKET NUMBER: PB340P2C2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 610-5790  
TELEFAX: (301) 309-8439  
INFORMATION FOR SEQ ID NO: 226:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 250 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 226:  
US-09-765-272A-226

Query Match 77.8%; Score 35; DB 2; Length 250;  
Best Local Similarity 87.5%; Pred. No. 44;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TELEKNT 9  
|||||:  
Db 229 TELEKNT 236

RESULT 17  
US-09-583-110-5299  
Sequence 5299, Application US/09583110  
Patent No. 6699703  
GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al.  
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics  
FILE REFERENCE: PATH00-07A  
CURRENT APPLICATION NUMBER: US/09/583,110  
FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/107,433  
PRIOR FILING DATE: 1998-06-30  
PRIOR APPLICATION NUMBER: US 60/085,131  
PRIOR FILING DATE: 1998-05-12  
PRIOR APPLICATION NUMBER: US 60/051,553

PRIOR FILING DATE: 1997-07-02  
NUMBER OF SEQ ID NOS: 5322  
SEQ ID NO 5299  
LENGTH: 266  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-583-110-5299

Query Match 77.8%; Score 35; DB 2; Length 266;  
Best Local Similarity 87.5%; Pred. No. 47;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DTLEKLTNT 9  
Db 245 TLEKLSNT 252

RESULT 18  
US-09-769-787-165  
Sequence 165, Application US/09769787  
Patent No. 6936252  
GENERAL INFORMATION:  
APPLICANT: Microbial Technics Limited  
APPLICANT: Gilbert, Christophe FG  
APPLICANT: Hansbro, Philip M  
TITLE OF INVENTION: Proteins  
FILE REFERENCE: PNC/P21129WO  
CURRENT APPLICATION NUMBER: US/09/769, 787  
CURRENT FILING DATE: 2001-01-26  
PRIOR APPLICATION NUMBER: GB 9816337.1  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: US 60/125164  
PRIOR FILING DATE: 1999-03-19  
NUMBER OF SEQ ID NOS: 388  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 165  
LENGTH: 266  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-09-769-787-165

Query Match 77.8%; Score 35; DB 2; Length 266;  
Best Local Similarity 87.5%; Pred. No. 47;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
Db 245 TLEKLSNT 252

RESULT 19  
US-09-543-681A-5023  
Sequence 5023, Application US/09543681A  
Patent No. 6605709  
GENERAL INFORMATION:  
APPLICANT: GARY BRETON  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
FILE REFERENCE: 2709.1002-001  
CURRENT APPLICATION NUMBER: US/09/543, 681A  
CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128, 706  
PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344  
SEQ ID NO 5023  
LENGTH: 316  
TYPE: PRT  
ORGANISM: Proteus mirabilis  
US-09-543-681A-5023

Query Match 77.8%; Score 35; DB 2; Length 316;  
Best Local Similarity 66.7%; Pred. No. 57;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 241 ETLEQITNT 249

RESULT 20  
US-08-466-285-4  
Sequence 4, Application US/08466285  
Patent No. 5753733  
GENERAL INFORMATION:  
APPLICANT: Bleul, Conrad  
APPLICANT: Giesmann, Lutz  
APPLICANT: Muller, Martin  
TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of  
TITLE OF INVENTION: Human Papillomavirus (HPV)18  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
STREET: 1300 I Street, N.W., Suite 700  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/466,285  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/164,768  
FILING DATE: 10-DEC-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/947,992  
FILING DATE: 21-SEP-1992  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/696,953  
FILING DATE: 08-MAY-1991  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: P 40 15 044.5  
FILING DATE: 10-MAY-1990  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Manspeizer, David A.  
REGISTRATION NUMBER: 37,540  
REFERENCE/DOCKET NUMBER: 05552.1075-03000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)408-4000  
TELEFAX: (202)408-4400  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 32 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-466-285-4

Query Match 75.6%; Score 34; DB 1; Length 32;  
Best Local Similarity 100.0%; Pred. No. 7.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLT 7  
Db 26 DTLEKLT 32

RESULT 21  
US-08-164-768-4  
; Sequence 4, Application US/08164768  
; Patent No. 6322794  
; GENERAL INFORMATION:  
; APPLICANT: BLEUL, Conrad  
; APPLICANT: GISSMANN, Lutz  
; APPLICANT: MULLER, Martin  
; TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF  
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FINNEGAN, HENDERSON, FARABOW, GARRETT &  
; STREET: 1300 I Street, N.W.  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/164,768  
; FILING DATE: 10-DEC-1993  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Portman, David S.  
; REGISTRATION NUMBER: 33,694  
; REFERENCE/DOCKET NUMBER: 05552.1075-02000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 408-4000  
; TELEFAX: (202) 408-4400  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 32 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; US-08-164-768-4

Query Match 75.6%; Score 34; DB 2; Length 32;  
Best Local Similarity 100.0%; Pred. No. 7.2;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTN 7  
| | | | |  
Db 26 DTLEKLTN 32

RESULT 22  
US-07-847-010-23  
; Sequence 23, Application US/07847010  
; Patent No. 5693495  
; GENERAL INFORMATION:  
; APPLICANT: Breiteneder, Helmo  
; APPLICANT: Reiterstorfer, Arnold  
; APPLICANT: Valenta, Rudolf  
; APPLICANT: Hoffmann - Sommergruber, Karin  
; APPLICANT: Breitenbach, Michael  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Rumpold, Helmut  
; APPLICANT: Scheiner, Otto  
; APPLICANT: Ebner, Christof  
; APPLICANT: Ferreira, Fatima  
; TITLE OF INVENTION: Allergens of Alder Pollen and  
; TITLE OF INVENTION: Applications Thereof  
; NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/847,010  
; FILING DATE: 01-JUN-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jones III, Harry C  
; REGISTRATION NUMBER: 20,280  
; REFERENCE/DOCKET NUMBER: 6530-010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 160 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:  
; ORGANISM: Birch (Betula sp.)  
; IMMEDIATE SOURCE:  
; LIBRARY: POLLEN FROM ALLERCON AB, ENGELHOLM, SWEDEN  
; US-07-847-010-23

Query Match 75.6%; Score 34; DB 1; Length 160;  
Best Local Similarity 75.0%; Pred. No. 42;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
| | | | |  
Db 94 DTLEKLTN 101

RESULT 23  
US-09-270-767-62218  
; Sequence 62218, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 62218  
; LENGTH: 328  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; US-09-270-767-62218

Query Match 75.6%; Score 34; DB 2; Length 328;  
Best Local Similarity 87.5%; Pred. No. 93;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
| | | | |  
Db 172 DTLEKLTN 179

```
RESULT 24
US-09-270-767-36082
; Sequence 36082, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 36082
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-36082

Query Match      73.3%; Score 33; DB 2; Length 167;
Best Local Similarity 87.5%; Pred. No. 69;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      |||||
Db      160 TLEKLTNT 167

RESULT 25
US-09-270-767-51299
; Sequence 51299, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 51299
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-51299

Query Match      73.3%; Score 33; DB 2; Length 167;
Best Local Similarity 87.5%; Pred. No. 69;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      |||||
Db      160 TLEKLTNT 167

RESULT 26
US-09-107-433-4132
; Sequence 4132, Application US/09107433
; Patent No. 6800744
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucet-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGN
; THERAPEUTICS
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
```

```

; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/ 085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4132:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 449 amino acids
; TYPE: amino acid
; TOPOLOGY: Linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...449
; SEQUENCE DESCRIPTION: SEQ ID NO: 4132:
US-09-107-433-4132

Query Match      73.3%; Score 33; DB 2; Length 449;
Best Local Similarity 66.7%; Pred. No. 26+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 DTLEKLTNT 9
      |::|||
Db      160 DKIEBLTNT 168

RESULT 27
US-09-583-110-3922
; Sequence 3922, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucet-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; THERAPEUTICS
; FILE REFERENCE: PATHO0-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; CURRENT FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 3922
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-3922

Query Match      73.3%; Score 33; DB 2; Length 454;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

OY 1 DTLEKLTNT 9  
|:|:|:|  
Db 165 DKIEBLTNT 173

RESULT 28  
US-09-270-767-62306  
; Sequence 62306, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 62306  
; LENGTH: 592  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-62306

Query Match 73.3%; Score 33; DB 2; Length 592;  
Best Local Similarity 75.0%; Pred. No. 2.8e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
|:|:|:|  
Db 545 TPEKITNT 552

RESULT 29  
US-09-270-767-46693  
; Sequence 46693, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 46693  
; LENGTH: 852  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-46693

Query Match 73.3%; Score 33; DB 2; Length 852;  
Best Local Similarity 75.0%; Pred. No. 4.1e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 TLEKLTNT 9  
|:|:|:|  
Db 545 TPEKITNT 552

RESULT 30  
US-09-328-352-5769  
; Sequence 5769, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA

; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 5769  
; LENGTH: 297  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-5769

Query Match 71.1%; Score 32; DB 2; Length 297;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 DTLEKLTNT 9  
|:|:|:|  
Db 112 ETLEKFTDT 120

RESULT 31  
US-09-107-532A-3672  
; Sequence 3672, Application US/09107532A  
; Patent No. 6583275  
; GENERAL INFORMATION:  
; APPLICANT: Lynn A Doucette-Stamm and David Bush  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
; NUMBER OF SEQUENCES: 7310  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
; STREET: 100 Beaver Street  
; CITY: Waltham  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02354  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: CD-ROM ISO9660  
; OPERATING SYSTEM: <Unknown>  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/107,532A  
; FILING DATE: 30-Jun-1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/085,598  
; FILING DATE: 14 May 1998  
; APPLICATION NUMBER: 60/051571  
; FILING DATE: July 2, 1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Artinello, Pamela Deneka  
; REGISTRATION NUMBER: 40,489  
; REFERENCE/DOCKET NUMBER: GTC-012  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (781)893-5007  
; TELEFAX: (781)893-8277  
; INFORMATION FOR SEQ ID NO: 3672:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 469 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; HYPOTHEICAL: YES  
; ORIGINAL SOURCE:  
; ORGANISM: Enterococcus faecium  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (8) LOCATION 1...469  
; SEQUENCE DESCRIPTION: SEQ ID NO: 3672:  
US-09-107-532A-3672

Query Match 71.1%; Score 32; DB 2; Length 469;  
Best Local Similarity 75.0%; Pred. No. 3.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 DTLEKLTN 8  
| | | | |  
Db 433 DLEKMTN 440

RESULT 32  
US-09-248-796A-17352  
; Sequence 17352, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstein et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 17352  
; LENGTH: 625  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-17352

Query Match 71.1%; Score 32; DB 2; Length 625;  
Best Local Similarity 75.0%; Pred. No. 4.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 DTLEKLTN 8  
| | | | |  
Db 184 DKLEKLTN 191

RESULT 33  
US-09-248-796A-24131  
; Sequence 24131, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstein et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; PRIOR FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 24131  
; LENGTH: 121  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-24131

Query Match 68.9%; Score 31; DB 2; Length 121;  
Best Local Similarity 66.7%; Pred. No. 1.2e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 DTLEKLTN 9  
| | | | |  
Db 22 DTVEKLTN 30

RESULT 34  
US-09-543-681A-6662  
; Sequence 6662, Application US/09543681A  
; Patent No. 6605709  
; GENERAL INFORMATION:  
; APPLICANT: GARY BRETON

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
; FILE REFERENCE: 2709.1002-001  
; CURRENT APPLICATION NUMBER: US/09/543,681A  
; PRIOR FILING DATE: 2000-04-05  
; PRIOR APPLICATION NUMBER: US 60/128,706  
; PRIOR FILING DATE: 1999-04-09  
; NUMBER OF SEQ ID NOS: 8344  
; SEQ ID NO 6662  
; LENGTH: 200  
; TYPE: PRT  
; ORGANISM: Proteus mirabilis  
US-09-543-681A-6662

Query Match 68.9%; Score 31; DB 2; Length 200;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 DTLEKLTN 9  
| | | | |  
Db 177 NMLEKLSNT 185

RESULT 35  
US-08-928-692-31  
; Sequence 31, Application US/08928692  
; Patent No. 5958727  
; GENERAL INFORMATION:  
; APPLICANT: Brody, Howard  
; APPLICANT: Yaver, Deborah S.  
; APPLICANT: Lamsa, Michael  
; APPLICANT: Hansen, Kim  
; TITLE OF INVENTION: Methods for Modifying the Production of  
; TITLE OF INVENTION: a Polypeptide  
; NUMBER OF SEQUENCES: 80  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSER: No. 5958727e No. 5958727disk of No. 5958727th America, Inc.  
; STREET: 405 Lexington Avenue  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10174  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for windows version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/928,692  
; FILING DATE: 12-SEPT-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lambitis, Elias J  
; REGISTRATION NUMBER: 33,728  
; REFERENCE/DOCKET NUMBER: 4944.200-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-867-0123  
; TELEFAX: 212-878-9655  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 233 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: No. 5958727e  
US-08-928-692-31

Query Match 68.9%; Score 31; DB 1; Length 233;  
Best Local Similarity 77.8%; Pred. No. 2.4e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 DTLEKLTN 9  
| | | | |



Db 141 DELIKTNT 149

## RESULT 36

US-09-339-972-31  
Sequence 31, Application US/09339972

Patent No. 6323002

GENERAL INFORMATION:

APPLICANT: Brody, Howard

APPLICANT: Yaver, Deborah S.

APPLICANT: Lamas, Michael

APPLICANT: Hansen, Kim

TITLE OF INVENTION: Methods for Modifying the Production of

TITLE OF INVENTION: a Polypeptide

NUMBER OF SEQUENCES: 80

CORRESPONDENCE ADDRESS:

ADDRESSEE: No. 63230020 No. 6323002disk of No. 6323002th America, Inc.

STREET: 405 Lexington Avenue

CITY: New York

STATE: NY

COUNTRY: USA

ZIP: 10174

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: Pasteo for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/339,972

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/928,692

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4944.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 31:

SEQUENCE CHARACTERISTICS:

LENGTH: 233 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: No. 6323002e

US-09-339-972-31

Query Match 68.9%; Score 31; DB 2; Length 233;

Best Local Similarity 77.8%; Pred. No. 2.4e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 7; Conservative 0;

Db 141 DELIKTNT 149

## RESULT 37

US-09-248-796A-19850

Sequence 19850, Application US/09248796A

Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstein et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR FILING DATE: 1998-02-13

PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13

NUMBER OF SEQ ID NOS: 28208

SEQ ID NO 19850

LENGTH: 236

TYPE: PRT

ORGANISM: Candida albicans

US-09-248-796A-19850

Query Match 68.9%; Score 31; DB 2; Length 236;

Best Local Similarity 85.7%; Pred. No. 2.4e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 6; Conservative 1; Mismatches 0;

Db 52 LDKLTNT 58

## RESULT 38

US-09-328-352-7066

Sequence 7066, Application US/09328352

Patent No. 6562958

GENERAL INFORMATION:

APPLICANT: Gary L. Breton et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: GTC99-03PA

CURRENT APPLICATION NUMBER: US/09/328,352

CURRENT FILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 8252

SEQ ID NO 7066

LENGTH: 271

TYPE: PRT

ORGANISM: Acinetobacter baumannii

US-09-328-352-7066

Query Match 68.9%; Score 31; DB 2; Length 271;

Best Local Similarity 75.0%; Pred. No. 2.8e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 6; Conservative 1; Mismatches 1;

Db 11 TSEKLTNT 18

## RESULT 39

US-09-248-796A-18996

Sequence 18996, Application US/09248796A

Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstein et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR FILING DATE: 1998-02-13

PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13

NUMBER OF SEQ ID NOS: 28208

SEQ ID NO 18996

LENGTH: 305

TYPE: PRT

ORGANISM: Candida albicans

US-09-248-796A-18996

Query Match 68.9%; Score 31; DB 2; Length 305;

Best Local Similarity 75.0%; Pred. No. 3.2e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 6; Conservative 1; Mismatches 1;

Db 124 DTLTKVTN 131

## RESULT 40

US-09-248-796A-18996

RESULT 40  
US-08-891-254-1  
Sequence 1, Application US/08891254  
Patent No. 5776889  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
TITLE OF INVENTION: Induced Resistance in Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/891,254  
FILING DATE: 10-JUL-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-891-254-1  
Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 DTLEKLTN 8  
Db 117 DTVTKLTN 124  
RESULT 41  
US-08-484-358-2  
Sequence 2, Application US/08484358  
Patent No. 5850015  
GENERAL INFORMATION:  
APPLICANT: Bauer, David  
APPLICANT: Collier, Alan  
TITLE OF INVENTION: Hypersensitive Response Elicitor  
TITLE OF INVENTION: From  
TITLE OF INVENTION: Eritrilia Chrysanthemi  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.

ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/484,358  
FILING DATE:  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/840  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 716-263-1304  
TELEFAX: 716-263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-484-358-2  
Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 DTLEKLTN 8  
Db 117 DTVTKLTN 124  
RESULT 42  
US-08-819-539-1  
Sequence 1, Application US/08819539  
Patent No. 5859324  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: Hypersensitive Response  
TITLE OF INVENTION: Induced Resistance in Plants  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/819,539  
FILING DATE: 17-MAR-1997  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/475,775  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 14603/10050  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:

LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-819-539-1

Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 43  
US-09-030-270A-1  
Sequence 1, Application US/09030270A  
Patent No. 5977060  
GENERAL INFORMATION:  
APPLICANT: Zitter, Thomas A.  
APPLICANT: Wei, Zhong-Min  
TITLE OF INVENTION: INSECT CONTROL WITH A  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/030,270A  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,226  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1521  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-030-270A-1  
Query Match 68.9%; Score 31; DB 1; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 44  
US-09-118-959-2  
Sequence 2, Application US/09118959

Patent No. 6001959  
GENERAL INFORMATION:  
APPLICANT: Bauer, David  
APPLICANT: Collmer, Alan  
TITLE OF INVENTION: Hypersensitive Response Elicitor From  
TITLE OF INVENTION: Erwinia Chrysanthemi  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle  
STREET: Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/118,959  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/840  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 716-263-1304  
TELEFAX: 716-263-1600  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-118-959-2

Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 45  
US-08-984-207-1  
Sequence 1, Application US/08984207  
Patent No. 6235974  
GENERAL INFORMATION:  
APPLICANT: Oiu, Dewen  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Beer, Steven V.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: P.O. Box 1051, Clinton Square  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/984,207

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; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-984-207-1

Query Match      68.9%; Score 31; DB 2; Length 338;
Best Local Similarity 75.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
DB      117 DTVTKLTN 124

RESULT 46
; US-09-013-587-1
; Sequence 1, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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US-09-013-587-1

Query Match      68.9%; Score 31; DB 2; Length 338;
Best Local Similarity 75.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
DB      117 DTVTKLTN 124

RESULT 47
; US-09-086-118-21
; Sequence 21, Application US/09086118
; Patent No. 6583107
; GENERAL INFORMATION:
; APPLICANT: Lady, Ronald J.
; APPLICANT: Beer, Steven V.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICTOR
; TITLE OF INVENTION: FRAGMENTS ELICITING A HYPERSENSITIVE RESPONSE AND USES
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/086,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/048,109
; FILING DATE: 30-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1301
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-086-118-21

Query Match      68.9%; Score 31; DB 2; Length 338;
Best Local Similarity 75.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
DB      117 DTVTKLTN 124

RESULT 48
; US-09-431-614-1
; Sequence 1, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
```

APPLICANT: Schading, Richard L.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
FILE REFERENCE: 21829/41 (EBC-003)  
CURRENT FILING DATE: 1999-11-02  
EARLIER APPLICATION NUMBER: 60/107,243  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 1  
LENGTH: 338  
TYPE: PRT  
ORGANISM: Erwinia chrysanthemi  
US-09-431-614-1

Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 49  
US-09-412-100-21  
Sequence 21, Application US/09412100  
Patent No. 6858707  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Pan, Hao  
APPLICANT: Niggemeyer, Jennifer L.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FRAGMENTS WHICH ARE  
TITLE OF INVENTION: ACTIVE BUT DO NOT ELICIT A HYPERSENSITIVE RESPONSE  
FILE REFERENCE: 21829/31 (EBC-002)  
CURRENT APPLICATION NUMBER: US/09/412,100  
CURRENT FILING DATE: 1999-10-04  
EARLIER APPLICATION NUMBER: 60/103,050  
EARLIER FILING DATE: 1998-10-05  
NUMBER OF SEQ ID NOS: 39  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO: 21  
LENGTH: 338  
TYPE: PRT  
ORGANISM: Erwinia chrysanthemi  
US-09-412-100-21

Query Match 68.9%; Score 31; DB 2; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

RESULT 50  
PCT-US96-08819-1  
Sequence 1, Application PC/TUS9608819  
GENERAL INFORMATION:  
APPLICANT: Cornell Research Foundation, Inc.  
TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08819  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/475,775  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/10051  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 338 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-08819-1

Query Match 68.9%; Score 31; DB 4; Length 338;  
Best Local Similarity 75.0%; Pred. No. 3.6e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTN 8  
DB 117 DTVTKLTN 124

Search completed: May 5, 2006, 04:01:06  
Job time: 25 secs

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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds  
(without alignments)  
67.392 Million cell updates/sec

Title: US-08-170-344-28  
Perfect score: 45  
Sequence: 1 DTLEKLTNT 9

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues  
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database :  
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2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	100.0	27	5	US-10-751-845-153 Sequence 153, App
2	45	100.0	119	5	US-10-751-845-159 Sequence 159, App
3	45	100.0	158	5	US-10-800-023-27 Sequence 27, Appl
4	45	100.0	158	6	US-11-021-949-28 Sequence 28, Appl
5	45	100.0	172	4	US-10-472-724-6 Sequence 6, Appl
6	45	100.0	236	5	US-10-751-845-157 Sequence 157, App
7	45	100.0	237	5	US-10-751-845-158 Sequence 158, App
8	45	100.0	261	5	US-10-751-845-160 Sequence 160, App
9	45	100.0	278	4	US-10-000-903-21 Sequence 21, Appl
10	45	100.0	278	4	US-10-899-771-21 Sequence 21, Appl
11	45	100.0	383	4	US-10-000-903-23 Sequence 23, Appl
12	45	100.0	383	5	US-10-899-771-23 Sequence 23, Appl
13	39	86.7	158	6	US-11-021-949-29 Sequence 29, Appl
14	36	80.0	181	5	US-10-739-930-6845 Sequence 6845, Ap
15	36	80.0	1087	6	US-11-097-143-22866 Sequence 22866, A
16	35	77.8	115	3	US-09-824-787B-2 Sequence 2, Appl
17	35	77.8	115	4	US-10-435-696-93 Sequence 93, Appl
18	35	77.8	115	4	US-10-457-829-2 Sequence 2, Appl
19	35	77.8	115	5	US-10-887-230-2 Sequence 2, Appl
20	35	77.8	115	5	US-10-887-230-2 Sequence 2, Appl
21	35	77.8	115	5	US-10-887-230-2 Sequence 2, Appl
22	35	77.8	115	6	US-11-003-819-2 Sequence 86, Appl
23	35	77.8	117	3	US-09-833-203-34 Sequence 34, Appl
24	35	77.8	124	4	US-10-264-049-4187 Sequence 4187, Ap
25	35	77.8	131	4	US-09-925-301-966 Sequence 966, App
26	35	77.8	131	4	US-10-457-829-155 Sequence 155, App
27	35	77.8	180	5	US-10-617-320-4010 Sequence 4010, Ap

28	35	77.8	206	4	US-10-177-293-480 Sequence 480, App
29	35	77.8	249	6	US-09-765-272-6 Sequence 6, Appl
30	35	77.8	249	6	US-11-106-649-6 Sequence 6, Appl
31	35	77.8	250	3	US-09-765-272-226 Sequence 226, App
32	35	77.8	250	6	US-11-106-649-226 Sequence 226, App
33	35	77.8	266	3	US-09-769-787-165 Sequence 165, App
34	35	77.8	271	5	US-10-472-928-1130 Sequence 1130, Ap
35	35	77.8	303	4	US-10-369-493-1100 Sequence 1100, Ap
36	35	77.8	463	5	US-10-732-923-20255 Sequence 20255, A
37	35	77.8	594	5	US-10-732-923-20254 Sequence 20252, A
38	35	77.8	603	5	US-10-732-923-20252 Sequence 20253, A
39	35	77.8	603	5	US-10-732-923-20253 Sequence 10074, A
40	35	77.8	982	4	US-10-369-493-10074 Sequence 69274, A
41	35	77.8	1211	4	US-10-282-122A-69274 Sequence 67605, A
42	35	77.8	1214	4	US-10-282-122A-67605 Sequence 67605, A
43	34	75.6	9	3	US-09-824-787B-117 Sequence 117, App
44	34	75.6	9	4	US-10-457-829-117 Sequence 117, App
45	34	75.6	31	4	US-10-026-911-6 Sequence 6, Appl
46	34	75.6	80	5	US-10-799-514-6 Sequence 6, Appl
47	34	75.6	149	5	US-10-799-514-19 Sequence 19, Appl
48	34	75.6	153	5	US-10-799-514-19 Sequence 19, Appl
49	34	75.6	153	5	US-10-799-514-19 Sequence 19, Appl
50	34	75.6	159	3	US-09-981-009B-1 Sequence 21, Appl
51	34	75.6	159	3	US-09-847-208-34 Sequence 34, Appl
52	34	75.6	159	3	US-09-847-208-36 Sequence 36, Appl
53	34	75.6	159	3	US-09-847-208-37 Sequence 37, Appl
54	34	75.6	159	3	US-09-847-208-38 Sequence 38, Appl
55	34	75.6	159	3	US-09-847-208-39 Sequence 39, Appl
56	34	75.6	159	3	US-09-847-208-40 Sequence 40, Appl
57	34	75.6	159	3	US-09-847-208-42 Sequence 42, Appl
58	34	75.6	159	3	US-09-957-806A-6 Sequence 6, Appl
59	34	75.6	159	4	US-10-001-245-2 Sequence 2, Appl
60	34	75.6	159	4	US-10-001-245-3 Sequence 3, Appl
61	34	75.6	159	4	US-10-001-245-5 Sequence 5, Appl
62	34	75.6	159	4	US-10-001-245-92 Sequence 92, Appl
63	34	75.6	159	4	US-10-719-553-37 Sequence 37, Appl
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65	34	75.6	160	4	US-10-001-245-1 Sequence 1, Appl
66	34	75.6	160	4	US-10-001-245-6 Sequence 6, Appl
67	34	75.6	160	4	US-10-001-245-8 Sequence 8, Appl
68	34	75.6	160	4	US-10-001-245-10 Sequence 10, Appl
69	34	75.6	160	4	US-10-440-516-1 Sequence 1, Appl
70	34	75.6	160	4	US-10-440-516-2 Sequence 2, Appl
71	34	75.6	160	5	US-10-799-514-7 Sequence 7, Appl
72	34	75.6	160	5	US-10-809-689-87 Sequence 87, Appl
73	34	75.6	260	4	US-10-282-122A-62329 Sequence 62329, A
74	34	75.6	260	4	US-10-282-122A-64645 Sequence 64645, A
75	34	75.6	292	4	US-10-408-765A-1939 Sequence 1939, Ap
76	34	75.6	327	4	US-10-264-049-2290 Sequence 2290, Ap
77	34	75.6	660	4	US-10-425-115-287895 Sequence 22442, A
78	33	73.3	141	4	US-10-425-115-287895 Sequence 49209, A
79	33	73.3	199	4	US-10-425-115-352211 Sequence 352211, A
80	33	73.3	366	4	US-10-437-963-146275 Sequence 146275, A
81	33	73.3	381	4	US-10-156-776-11111 Sequence 11111, A
82	33	73.3	381	4	US-10-425-115-66945 Sequence 66945, A
83	33	73.3	388	4	US-10-425-115-300526 Sequence 300526, A
84	33	73.3	449	5	US-10-617-320-4132 Sequence 4132, Ap
85	33	73.3	454	5	US-10-282-122A-73800 Sequence 73800, A
86	33	73.3	454	5	US-10-472-928-6688 Sequence 6688, App
87	33	73.3	1150	5	US-10-732-923-22717 Sequence 22717, A
88	33	73.3	1335	5	US-10-732-923-22719 Sequence 22719, A
89	33	73.3	1335	5	US-10-732-923-22719 Sequence 22719, A
90	33	73.3	1336	5	US-10-486-376-2 Sequence 2, Appl
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92	33	73.3	1428	6	US-11-097-143-37923 Sequence 37923, A
93	33	73.3	1863	3	US-10-815-242-5815 Sequence 43976, A
94	33	73.3	2076	3	US-09-815-242-5815 Sequence 5815, Ap
95	33	73.3	2186	3	US-09-815-242-15913 Sequence 12913, A
96	33	73.3	2186	3	US-09-815-242-15913 Sequence 336, App
97	33	73.3	3040	5	US-10-470-048B-336 Sequence 336, App
98	33	73.3	3040	4	US-10-741-191-2 Sequence 2, Appl
99	33	73.3	3040	4	US-10-742-350-2 Sequence 2, Appl
100	32	71.1	138	4	US-10-425-115-242726 Sequence 242726, A

101	32	71.1	158	6	US-11-021-949-30	Sequence 30, App1	174	31	68.9	250	4	US-10-293-418-1212	Sequence 1212, Ap
102	32	71.1	158	6	US-11-021-949-361	Sequence 361, App	175	31	68.9	250	4	US-10-293-418-1535	Sequence 1535, Ap
103	32	71.1	159	3	US-09-847-208-35	Sequence 35, App1	176	31	68.9	250	4	US-10-293-418-1540	Sequence 1540, Ap
104	32	71.1	159	3	US-09-847-208-41	Sequence 41, App1	177	31	68.9	250	4	US-10-293-418-1563	Sequence 1563, Ap
105	32	71.1	159	3	US-09-847-208-43	Sequence 43, App1	178	31	68.9	250	4	US-10-293-418-1564	Sequence 1564, Ap
106	32	71.1	216	4	US-10-767-701-59137	Sequence 59137, A	179	31	68.9	250	4	US-10-293-418-1565	Sequence 1565, Ap
107	32	71.1	261	4	US-10-283-122A-4976	Sequence 4976, A	180	31	68.9	250	4	US-10-293-418-1566	Sequence 1566, Ap
108	32	71.1	326	6	US-11-097-143-17688	Sequence 17688, A	181	31	68.9	250	4	US-10-293-418-1867	Sequence 1867, Ap
109	32	71.1	344	4	US-10-437-963-10904	Sequence 10904, A	182	31	68.9	251	3	US-09-880-748-890	Sequence 890, App
110	32	71.1	362	4	US-10-425-115-35950	Sequence 35950, A	183	31	68.9	251	3	US-09-880-748-891	Sequence 891, App
111	32	71.1	367	4	US-10-425-114-64115	Sequence 64115, A	184	31	68.9	251	3	US-09-880-748-894	Sequence 894, App
112	32	71.1	367	4	US-10-437-963-109096	Sequence 109096, A	185	31	68.9	251	3	US-09-880-748-903	Sequence 903, App
113	32	71.1	382	4	US-10-437-963-109098	Sequence 109098, A	186	31	68.9	251	3	US-09-880-748-910	Sequence 910, App
114	32	71.1	437	5	US-10-501-282-4612	Sequence 4612, App	187	31	68.9	251	3	US-09-880-748-1010	Sequence 1010, App
115	32	71.1	485	6	US-11-097-143-30756	Sequence 30756, A	188	31	68.9	251	3	US-09-880-748-1011	Sequence 1011, App
116	32	71.1	490	5	US-10-732-923-22817	Sequence 22817, A	189	31	68.9	251	3	US-09-880-748-1013	Sequence 1013, App
117	32	71.1	506	4	US-10-225-068-180	Sequence 180, App	190	31	68.9	251	3	US-09-880-748-1020	Sequence 1020, App
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545	30	66.7	166	4	US-10-287-994-20	Sequence 20, Appl	618	30	66.7	271	5	US-10-484-156-6	Sequence 6, Appl
546	30	66.7	166	4	US-10-410-913-20	Sequence 20, Appl	619	30	66.7	277	4	US-10-425-114-62098	Sequence 62098, A
547	30	66.7	166	4	US-10-733-878-279	Sequence 279, App	620	30	66.7	279	4	US-10-425-114-70775	Sequence 70775, A
548	30	66.7	166	5	US-10-276-642-2	Sequence 2, Appl	621	30	66.7	281	4	US-10-425-114-63752	Sequence 63754, A
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551	30	66.7	166	5	US-10-491-997-138	Sequence 138, App	624	30	66.7	283	5	US-10-425-114-63724	Sequence 62099, A
552	30	66.7	166	5	US-10-410-897-120	Sequence 20, Appl	625	30	66.7	291	5	US-10-946-647-1438	Sequence 1438, App
553	30	66.7	166	5	US-10-492-261-20	Sequence 20, Appl	626	30	66.7	296	4	US-10-282-122A-77550	Sequence 77560, A
554	30	66.7	166	5	US-10-601-072-279	Sequence 279, App	627	30	66.7	309	4	US-10-282-122A-60946	Sequence 60946, A
555	30	66.7	166	6	US-11-115-906-18	Sequence 18, Appl	628	30	66.7	312	3	US-09-967-347-11	Sequence 5, Appl
556	30	66.7	167	4	US-10-205-534-8	Sequence 8, Appl	629	30	66.7	312	3	US-09-769-086-5	Sequence 11, Appl
557	30	66.7	171	4	US-10-205-534-10	Sequence 10, Appl	630	30	66.7	314	4	US-10-174-487-6	Sequence 6, Appl
558	30	66.7	176	4	US-10-437-963-142143	Sequence 142143, Sequence 359408,	631	30	66.7	314	4	US-10-369-483-3751	Sequence 3751, App
559	30	66.7	181	4	US-10-425-115-359408	Sequence 60, Appl	632	30	66.7	317	4	US-10-151-208-6	Sequence 18, Appl
560	30	66.7	181	6	US-11-000-473-60	Sequence 33, Appl	633	30	66.7	323	4	US-10-895-396-18	Sequence 118569, Sequence 288015,
561	30	66.7	182	4	US-10-346-863-33	Sequence 35, Appl	634	30	66.7	334	5	US-10-437-963-118569	Sequence 89, Appl
562	30	66.7	182	4	US-10-346-863-35	Sequence 36, Appl	635	30	66.7	335	4	US-10-425-115-208576	Sequence 235695,
563	30	66.7	183	4	US-10-425-114-53783	Sequence 53783, A	636	30	66.7	337	4	US-10-425-115-208576	Sequence 10436, A
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565	30	66.7	183	4	US-10-346-863-41	Sequence 41, Appl	638	30	66.7	351	5	US-10-875-100-88	Sequence 10778, A
566	30	66.7	183	4	US-10-615-515-7	Sequence 7, Appl	639	30	66.7	360	4	US-10-425-115-252635	Sequence 169146,
567	30	66.7	183	4	US-10-615-515-7	Sequence 260534, Sequence 4, Appl	640	30	66.7	362	5	US-10-732-923-10336	Sequence 45518, A
568	30	66.7	184	3	US-09-805-354-4	Sequence 4, Appl	641	30	66.7	363	4	US-10-425-114-50495	Sequence 8187, App
569	30	66.7	184	3	US-09-795-798-7	Sequence 7, Appl	642	30	66.7	376	4	US-10-128-714-8187	Sequence 45589, A
570	30	66.7	184	3	US-09-795-798-8	Sequence 8, Appl	643	30	66.7	387	5	US-10-128-714-3187	Sequence 3187, App
571	30	66.7	184	3	US-09-795-798-7	Sequence 7, Appl	644	30	66.7	390	5	US-10-739-930-10778	Sequence 60765, A
572	30	66.7	184	3	US-09-158-493-4	Sequence 4, Appl	645	30	66.7	401	4	US-10-282-122A-52850	Sequence 52850, A
573	30	66.7	184	4	US-10-144-259-4	Sequence 7, Appl	646	30	66.7	424	4	US-10-425-115-208916	Sequence 208916, Sequence 189, App
574	30	66.7	184	4	US-10-727-737-8	Sequence 8, Appl	647	30	66.7	424	4	US-10-128-714-8187	Sequence 189, App
575	30	66.7	184	5	US-10-473-127-2033	Sequence 2033, App	648	30	66.7	425	4	US-10-282-122A-45589	Sequence 45589, A
576	30	66.7	184	4	US-10-346-863-56	Sequence 56, Appl	649	30	66.7	425	4	US-10-128-714-3187	Sequence 3187, App
577	30	66.7	188	4	US-10-094-749-1717	Sequence 1717, App	650	30	66.7	426	4	US-10-282-122A-50765	Sequence 50765, A
578	30	66.7	189	4	US-10-732-923-5026	Sequence 5026, App	651	30	66.7	426	4	US-10-282-122A-52850	Sequence 52850, A
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582	30	66.7	225	3	US-09-815-242-10689	Sequence 10689, A	655	30	66.7	436	4	US-10-282-122A-42510	Sequence 232561, A
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584	30	66.7	242	5	US-10-873-332-64	Sequence 64, Appl	657	30	66.7	437	4	US-10-108-260A-4502	Sequence 4502, App
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586	30	66.7	247	5	US-10-732-923-5006	Sequence 5007, App	659	30	66.7	451	5	US-10-732-923-6699	Sequence 6699, App
587	30	66.7	247	5	US-10-732-923-5007	Sequence 278212, Sequence 5004, App	660	30	66.7	457	5	US-10-732-923-6699	Sequence 20187, A
588	30	66.7	248	4	US-10-424-599-278212	Sequence 278212, Sequence 5005, App	661	30	66.7	457	5	US-10-369-499-20187	Sequence 5559, App
589	30	66.7	248	5	US-10-732-923-5004	Sequence 5004, App	662	30	66.7	459	6	US-11-097-143-5559	Sequence 9369, App
590	30	66.7	248	5	US-10-732-923-5005	Sequence 5005, App	663	30	66.7	545	5	US-10-732-923-9369	Sequence 2, Appl
591	30	66.7	249	4	US-10-424-599-147651	Sequence 147651, Sequence 5003, App	664	30	66.7	546	3	US-09-874-992-2	Sequence 2, Appl
592	30	66.7	249	5	US-10-732-923-5003	Sequence 5029, App	665	30	66.7	546	3	US-09-991-496-2	Sequence 718331, A
593	30	66.7	250	5	US-10-732-923-5029	Sequence 4991, App	666	30	66.7	546	4	US-10-098-732A-71	Sequence 68709, A
594	30	66.7	253	5	US-10-732-923-4991	Sequence 4991, App	667	30	66.7	546	4	US-10-282-122A-68709	Sequence 13417, A
595	30	66.7	253	5	US-10-732-923-4993	Sequence 4993, App	668	30	66.7	589	4	US-10-369-499-13417	Sequence 2, Appl
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597	30	66.7	253	5	US-10-732-923-5028	Sequence 5028, App	670	30	66.7	592	4	US-10-322-281-172	Sequence 178331, A
598	30	66.7	254	5	US-10-732-923-4998	Sequence 4999, App	671	30	66.7	595	4	US-10-437-963-1178331	Sequence 5866, App
599	30	66.7	255	5	US-10-732-923-4995	Sequence 4995, App	672	30	66.7	600	4	US-10-106-698-5866	Sequence 169, App
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602	30	66.7	256	5	US-10-732-923-5001	Sequence 5001, App	675	30	66.7	685	3	US-11-097-143-18630	Sequence 59487, A
603	30	66.7	256	5	US-10-732-923-5002	Sequence 5002, App	676	30	66.7	685	3	US-10-450-763-59487	Sequence 68, Appl
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686	30	66.7	904	4	US-10-425-114-53515	Sequence 53515, A	759	29	64.4	85	5	US-10-617-320-2762	Sequence 2762, Ap
687	30	66.7	924	5	US-10-732-922-3176	Sequence 3176, Ap	760	29	64.4	89	3	US-09-430-029-4	Sequence 4, Appl1
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689	30	66.7	955	3	US-09-991-496-127	Sequence 127, App	762	29	64.4	91	4	US-10-424-599-875908	Sequence 275908,
690	30	66.7	982	3	US-09-874-923-95	Sequence 95, Appl	763	29	64.4	92	4	US-10-437-963-165863	Sequence 165863,
691	30	66.7	982	3	US-09-991-496-95	Sequence 95, Appl	764	29	64.4	94	4	US-10-437-963-183158	Sequence 183158,
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693	30	66.7	995	3	US-09-864-761-48017	Sequence 48017, A	766	29	64.4	105	4	US-10-424-599-160598	Sequence 160599,
694	30	66.7	1019	3	US-09-776-191-64	Sequence 64, Appl	767	29	64.4	109	4	US-10-424-599-193650	Sequence 193650,
695	30	66.7	1019	4	US-10-157-031-267	Sequence 267, App	768	29	64.4	110	4	US-10-309-629-8	Sequence 8, Appl1
696	30	66.7	1019	4	US-10-156-214A-31	Sequence 31, Appl	769	29	64.4	116	4	US-10-424-599-260227	Sequence 260227,
697	30	66.7	1019	4	US-10-408-765A-2243	Sequence 2243, Ap	770	29	64.4	118	4	US-10-424-599-820708	Sequence 202708,
698	30	66.7	1019	4	US-10-729-807-37	Sequence 37, Appl	771	29	64.4	119	4	US-10-437-963-140158	Sequence 140158,
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703	30	66.7	1145	5	US-10-473-127-1738	Sequence 1738, Ap	776	29	64.4	142	4	US-10-424-599-195572	Sequence 195572,
704	30	66.7	1145	5	US-10-872-198-130	Sequence 130, App	777	29	64.4	146	4	US-10-425-115-254389	Sequence 254389,
705	30	66.7	1145	6	US-11-021-951-130	Sequence 130, App	778	29	64.4	147	4	US-10-424-599-253182	Sequence 253182,
706	30	66.7	1158	5	US-10-756-149-5250	Sequence 5250, Ap	779	29	64.4	148	6	US-11-021-949-19	Sequence 19, Appl
707	30	66.7	1170	3	US-09-945-265-2	Sequence 2, Appl1	780	29	64.4	148	6	US-11-021-949-359	Sequence 359, App
708	30	66.7	1170	4	US-10-261-164-1	Sequence 1, Appl1	781	29	64.4	156	4	US-10-017-161-1384	Sequence 1384, Ap
709	30	66.7	1170	5	US-10-473-127-1737	Sequence 1737, Ap	782	29	64.4	156	4	US-10-292-798-1130	Sequence 1130, Ap
710	30	66.7	1170	5	US-10-473-127-1739	Sequence 1739, Ap	783	29	64.4	156	4	US-10-437-963-200909	Sequence 200909,
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712	30	66.7	1170	5	US-10-473-127-1743	Sequence 1743, Ap	785	29	64.4	158	4	US-10-424-599-154371	Sequence 154371,
713	30	66.7	1170	5	US-10-741-600-1088	Sequence 1088, Ap	786	29	64.4	158	4	US-10-424-599-154372	Sequence 154372,
714	30	66.7	1170	6	US-11-062-290-1	Sequence 1, Appl1	787	29	64.4	159	4	US-10-424-599-154376	Sequence 154376,
715	30	66.7	1170	4	US-11-000-473-42	Sequence 42, Appl	788	29	64.4	159	4	US-10-001-245-4	Sequence 4, Appl1
716	30	66.7	1201	4	US-10-282-122A-60698	Sequence 60698, A	789	29	64.4	159	4	US-10-001-245-9	Sequence 9, Appl1
717	30	66.7	1202	3	US-09-864-761-43061	Sequence 43061, A	790	29	64.4	159	4	US-10-440-516-47	Sequence 47, Appl
718	30	66.7	1223	4	US-10-408-765A-295	Sequence 295, App	791	29	64.4	160	4	US-10-001-245-17	Sequence 17, Appl
719	30	66.7	1223	5	US-10-473-127-1736	Sequence 1736, Ap	792	29	64.4	160	4	US-10-001-245-11	Sequence 11, Appl
720	30	66.7	1223	5	US-10-741-600-1083	Sequence 1086, Ap	793	29	64.4	160	4	US-10-001-245-12	Sequence 12, Appl
721	30	66.7	1235	4	US-10-369-493-1343	Sequence 1343, Ap	794	29	64.4	160	4	US-10-440-516-3	Sequence 3, Appl1
722	30	66.7	1235	4	US-10-369-493-20406	Sequence 20406, A	795	29	64.4	160	4	US-10-440-516-5	Sequence 5, Appl1
723	30	66.7	1235	5	US-10-734-563-86	Sequence 86, Appl	796	29	64.4	160	4	US-10-440-516-5	Sequence 5, Appl1
724	30	66.7	1270	5	US-10-450-763-36727	Sequence 36727, A	797	29	64.4	160	4	US-10-440-516-6	Sequence 6, Appl1
725	30	66.7	1427	3	US-09-874-923-97	Sequence 97, Appl	798	29	64.4	160	4	US-10-440-516-7	Sequence 7, Appl1
726	30	66.7	1427	3	US-09-991-496-97	Sequence 97, Appl	799	29	64.4	160	4	US-10-440-516-8	Sequence 8, Appl1
727	30	66.7	1471	4	US-10-259-194A-284	Sequence 284, App	800	29	64.4	160	4	US-10-440-516-9	Sequence 9, Appl1
728	30	66.7	1641	3	US-09-874-923-96	Sequence 96, Appl	801	29	64.4	160	4	US-10-440-516-10	Sequence 10, Appl
729	30	66.7	1641	3	US-09-991-496-96	Sequence 96, Appl	802	29	64.4	160	4	US-10-440-516-11	Sequence 11, Appl
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732	30	66.7	3450	4	US-10-369-493-5249	Sequence 5249, Ap	805	29	64.4	160	4	US-10-440-516-14	Sequence 14, Appl
733	30	66.7	3461	4	US-10-369-493-5248	Sequence 5248, Ap	806	29	64.4	160	4	US-10-440-516-15	Sequence 15, Appl
734	30	66.7	3461	4	US-10-369-493-5250	Sequence 5250, Ap	807	29	64.4	160	4	US-10-440-516-16	Sequence 16, Appl
735	30	66.7	3586	4	US-10-334-143-77	Sequence 77, Appl	808	29	64.4	160	4	US-10-440-516-17	Sequence 17, Appl
736	30	66.7	4464	4	US-10-369-493-5019	Sequence 5019, Ap	809	29	64.4	160	4	US-10-440-516-18	Sequence 18, Appl
737	30	66.7	179	3	US-09-738-626-5426	Sequence 5426, Ap	810	29	64.4	160	4	US-10-440-516-19	Sequence 19, Appl
738	29.5	65.6	203	3	US-10-767-701-59666	Sequence 59666, A	811	29	64.4	160	4	US-10-440-516-20	Sequence 20, Appl
739	29.5	65.6	203	3	US-10-751-845-141	Sequence 141, App	812	29	64.4	160	4	US-10-440-516-21	Sequence 21, Appl
740	29	64.4	9	5	US-10-497-091-17	Sequence 17, Appl	813	29	64.4	160	4	US-10-440-516-22	Sequence 22, Appl
741	29	64.4	13	5	US-10-497-091-18	Sequence 18, Appl	814	29	64.4	160	4	US-10-440-516-23	Sequence 23, Appl
742	29	64.4	13	5	US-10-497-091-19	Sequence 19, Appl	815	29	64.4	160	4	US-10-440-516-24	Sequence 24, Appl
743	29	64.4	15	5	US-10-193-460A-22	Sequence 22, Appl	816	29	64.4	160	4	US-10-440-516-25	Sequence 25, Appl
744	29	64.4	15	5	US-10-497-091-132	Sequence 132, App	817	29	64.4	160	4	US-10-440-516-26	Sequence 26, Appl
745	29	64.4	15	5	US-10-497-091-133	Sequence 133, App	818	29	64.4	160	4	US-10-440-516-27	Sequence 27, Appl
746	29	64.4	15	5	US-10-497-091-134	Sequence 134, App	819	29	64.4	160	4	US-10-440-516-28	Sequence 28, Appl
747	29	64.4	36	3	US-09-733-524-13	Sequence 13, Appl	820	29	64.4	160	4	US-10-440-516-29	Sequence 29, Appl
748	29	64.4	36	3	US-10-120-319-20	Sequence 20, Appl	821	29	64.4	160	4	US-10-440-516-30	Sequence 30, Appl
749	29	64.4	36	4	US-10-189-977-20	Sequence 20, Appl	822	29	64.4	160	4	US-10-440-516-31	Sequence 31, Appl
750	29	64.4	36	4	US-10-392-098-20	Sequence 20, Appl	823	29	64.4	160	4	US-10-440-516-32	Sequence 32, Appl
751	29	64.4	43	4	US-10-321-857-49	Sequence 49, Appl	824	29	64.4	160	4	US-10-440-516-33	Sequence 33, Appl
752	29	64.4	43	4	US-10-318-675-49	Sequence 49, Appl	825	29	64.4	160	4	US-10-440-516-34	Sequence 34, Appl
753	29	64.4	43	5	US-10-654-637-60	Sequence 60, Appl	826	29	64.4	160	4	US-10-440-516-35	Sequence 35, Appl
754	29	64.4	73	4	US-10-767-701-52982	Sequence 32982, A	827	29	64.4	160	4	US-10-440-516-36	Sequence 36, Appl
755	29	64.4	73	4	US-10-425-115-225950	Sequence 225950, A	828	29	64.4	160	4	US-10-440-516-37	Sequence 37, Appl
756	29	64.4	78	4	US-10-437-963-140192	Sequence 140192, A	829	29	64.4	160	4	US-10-440-516-38	Sequence 38, Appl
757	29	64.4	79	4	US-10-424-599-189128	Sequence 189128, A	830	29	64.4	160	4	US-10-440-516-39	Sequence 39, Appl

831	29	64.4	160	4	US-10-440-516-40	Sequence 40, Appl	904	29	64.4	407	4	US-10-437-963-183553	Sequence 183553,
832	29	64.4	160	4	US-10-440-516-41	Sequence 41, Appl	905	29	64.4	408	4	US-10-369-493-16453	Sequence 16453, A
833	29	64.4	161	4	US-10-440-516-43	Sequence 43, Appl	906	29	64.4	411	4	US-10-425-115-290475	Sequence 290475,
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835	29	64.4	162	4	US-10-440-516-46	Sequence 46, Appl	908	29	64.4	415	5	US-10-275-580-2	Sequence 2, Appl
836	29	64.4	163	4	US-10-424-599-229851	Sequence 229851,	909	29	64.4	415	5	US-10-675-982-7	Sequence 7, Appl
837	29	64.4	163	4	US-10-451-467A-712	Sequence 712, App	910	29	64.4	416	4	US-10-156-761-12568	Sequence 12568, A
838	29	64.4	164	4	US-10-424-599-155946	Sequence 155946,	911	29	64.4	423	4	US-10-282-122A-51973	Sequence 51873, A
839	29	64.4	164	4	US-10-424-599-189944	Sequence 2763, Ap	912	29	64.4	424	4	US-10-156-761-10363	Sequence 43372, A
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841	29	64.4	180	4	US-10-282-122A-66885	Sequence 16011, A	914	29	64.4	447	4	US-10-369-493-21436	Sequence 109531, A
842	29	64.4	197	5	US-10-732-923-16011	Sequence 154375,	915	29	64.4	467	4	US-10-437-963-109531	Sequence 121325, A
843	29	64.4	204	4	US-10-424-599-154375	Sequence 154375,	916	29	64.4	474	5	US-10-732-923-11325	Sequence 191366,
844	29	64.4	208	3	US-09-745-763-199	Sequence 199, App	917	29	64.4	485	4	US-10-468-333-7	Sequence 7, Appl
845	29	64.4	214	5	US-10-489-864-82	Sequence 82, Appl	918	29	64.4	489	4	US-10-468-333-7	Sequence 66127, A
846	29	64.4	218	4	US-10-156-761-11239	Sequence 11239, A	919	29	64.4	490	4	US-10-282-122A-66127	Sequence 39, Appl
847	29	64.4	237	5	US-10-739-930-10914	Sequence 10914, A	920	29	64.4	492	5	US-10-505-818-19	Sequence 48283, A
848	29	64.4	240	4	US-10-437-963-11012	Sequence 131012,	921	29	64.4	494	4	US-10-706-229-39	Sequence 1581, Ap
849	29	64.4	241	4	US-10-425-114-40208	Sequence 40208, A	922	29	64.4	497	4	US-10-282-122A-48283	Sequence 48283, A
850	29	64.4	251	5	US-10-732-923-5039	Sequence 5039, Ap	923	29	64.4	497	4	US-10-369-493-1581	Sequence 36772, A
851	29	64.4	253	4	US-10-732-923-5039	Sequence 14536, A	924	29	64.4	501	4	US-10-425-115-366727	Sequence 166015,
852	29	64.4	254	4	US-10-156-761-14536	Sequence 5, Appl	925	29	64.4	503	4	US-10-437-963-166015	Sequence 17199, A
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855	29	64.4	260	4	US-10-282-122A-61970	Sequence 61970, A	928	29	64.4	519	4	US-10-437-963-152944	Sequence 4, Appl
856	29	64.4	269	4	US-10-424-599-234461	Sequence 234461,	929	29	64.4	524	4	US-10-264-303-4	Sequence 3, Appl
857	29	64.4	270	3	US-09-809-920-14	Sequence 14, Appl	930	29	64.4	536	4	US-10-264-303-4	Sequence 10, Appl
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859	29	64.4	278	5	US-10-450-763-35887	Sequence 35887, A	932	29	64.4	547	6	US-09-943-857-10	Sequence 8, Appl
860	29	64.4	279	4	US-10-424-599-208615	Sequence 208615,	933	29	64.4	549	3	US-11-061-894-2	Sequence 2, Appl
861	29	64.4	279	4	US-10-468-333-6	Sequence 6, Appl	934	29	64.4	551	6	US-11-061-233-2	Sequence 61100, A
862	29	64.4	282	4	US-10-437-963-156910	Sequence 156910,	935	29	64.4	551	4	US-10-282-122A-61100	Sequence 19027, A
863	29	64.4	283	4	US-10-369-493-13943	Sequence 13943, A	936	29	64.4	552	4	US-10-369-493-19027	Sequence 60578, A
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866	29	64.4	292	4	US-10-425-114-40061	Sequence 40061, A	939	29	64.4	571	5	US-10-871-083-2	Sequence 2, Appl
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868	29	64.4	299	4	US-10-424-599-162425	Sequence 162425,	941	29	64.4	572	5	US-10-496-530-2	Sequence 73307, A
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870	29	64.4	306	4	US-10-025-806-14	Sequence 14, Appl	943	29	64.4	576	3	US-09-815-242-10193	Sequence 13752, A
871	29	64.4	313	5	US-10-732-923-9984	Sequence 9984, Ap	944	29	64.4	577	3	US-09-815-242-13752	Sequence 43109, A
872	29	64.4	314	5	US-10-732-923-10048	Sequence 10048, A	945	29	64.4	577	3	US-10-282-122A-43109	Sequence 75128, A
873	29	64.4	314	5	US-10-732-923-10049	Sequence 10049, A	946	29	64.4	577	4	US-10-282-122A-75128	Sequence 75128, A
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882	29	64.4	320	5	US-10-732-923-10101	Sequence 10101, A	955	29	64.4	610	3	US-09-891-332A-10	Sequence 10, Appl
883	29	64.4	327	4	US-10-416-314-33	Sequence 33, Appl	956	29	64.4	610	4	US-10-706-229-8	Sequence 8, Appl
884	29	64.4	328	4	US-10-282-122A-63979	Sequence 63979, A	957	29	64.4	610	4	US-10-706-229-16	Sequence 16, Appl
885	29	64.4	328	4	US-10-468-333-2	Sequence 2, Appl	958	29	64.4	610	4	US-10-706-229-23	Sequence 23, Appl
886	29	64.4	328	5	US-10-995-148-8	Sequence 8, Appl	959	29	64.4	610	4	US-10-706-229-23	Sequence 26, Appl
887	29	64.4	328	5	US-10-732-923-18122	Sequence 18122, A	960	29	64.4	610	4	US-10-706-229-23	Sequence 29, Appl
888	29	64.4	329	4	US-10-369-493-11102	Sequence 11102, A	961	29	64.4	610	4	US-10-706-229-23	Sequence 33, Appl
889	29	64.4	329	5	US-10-866-259-9	Sequence 9, Appl	962	29	64.4	610	4	US-10-706-229-35	Sequence 35, Appl
890	29	64.4	330	5	US-10-866-259-9	Sequence 22481, A	963	29	64.4	618	4	US-10-203-860-24	Sequence 24, Appl
891	29	64.4	334	5	US-10-369-493-22481	Sequence 22481, A	964	29	64.4	622	5	US-10-820-155-9	Sequence 9, Appl
892	29	64.4	334	5	US-10-972-963-183	Sequence 183, App	965	29	64.4	624	4	US-10-425-114-71796	Sequence 71796, A
893	29	64.4	336	4	US-10-282-122A-77584	Sequence 77584, A	966	29	64.4	624	4	US-10-369-493-19982	Sequence 19982, A
894	29	64.4	336	4	US-10-156-761-9969	Sequence 9969, Ap	967	29	64.4	624	4	US-10-437-963-149117	Sequence 149117, A
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896	29	64.4	336	6	US-11-097-143-17262	Sequence 17262, A	969	29	64.4	634	4	US-10-437-963-151282	Sequence 151282,
897	29	64.4	335	4	US-10-282-122A-67522	Sequence 67522, A	970	29	64.4	640	4	US-10-323-167-13	Sequence 13, Appl
898	29	64.4	335	4	US-10-187-536-4	Sequence 4, Appl	971	29	64.4	645	4	US-10-994-726-238	Sequence 238, App
899	29	64.4	338	4	US-10-424-599-201266	Sequence 201266,	972	29	64.4	649	5	US-10-994-726-238	Sequence 238, App
900	29	64.4	380	4	US-10-342-224-78	Sequence 78, Appl	973	29	64.4	659	4	US-10-437-963-18159	Sequence 178159,
901	29	64.4	387	4	US-10-424-599-281268	Sequence 281268,	974	29	64.4	668	5	US-10-994-726-237	Sequence 237, App
902	29	64.4	390	5	US-10-497-091-13	Sequence 13, Appl	975	29	64.4	677	3	US-09-891-332A-3	Sequence 3, Appl
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977 29 64.4 686 4 US-10-476-899-3 Sequence 3, Appl1
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979 29 64.4 708 3 US-09-891-332A-5 Sequence 5, Appl1
980 29 64.4 709 5 US-10-450-763-55874 Sequence 59874, A
981 29 64.4 726 4 US-10-425-114-55068 Sequence 59068, A
982 29 64.4 742 4 US-10-203-860-2 Sequence 2, Appl1
983 29 64.4 742 4 US-10-203-860-4 Sequence 4, Appl1
984 29 64.4 742 4 US-10-308-448-11 Sequence 11, Appl1
985 29 64.4 742 4 US-10-341-434-85 Sequence 85, Appl1
986 29 64.4 742 4 US-10-282-122A-53523 Sequence 53523, A
987 29 64.4 742 5 US-10-820-155-2 Sequence 2, Appl1
988 29 64.4 742 5 US-10-820-155-6 Sequence 6, Appl1
989 29 64.4 742 5 US-10-820-155-8 Sequence 8, Appl1
990 29 64.4 742 5 US-10-820-155-10 Sequence 10, Appl1
991 29 64.4 742 5 US-10-820-155-17 Sequence 17, Appl1
992 29 64.4 769 6 US-11-097-143-9501 Sequence 9501, Ap
993 29 64.4 776 4 US-10-282-122A-60245 Sequence 60245, A
994 29 64.4 777 6 US-11-097-143-6930 Sequence 6930, Ap
995 29 64.4 785 4 US-10-264-049-2968 Sequence 2968, Ap
996 29 64.4 819 4 US-10-303-683-18 Sequence 18, Appl1
997 29 64.4 820 4 US-10-303-683-19 Sequence 19, Appl1
998 29 64.4 830 4 US-10-437-963-158121 Sequence 158121,
999 29 64.4 832 4 US-10-282-122A-51394 Sequence 51394, A
1000 29 64.4 840 4 US-10-437-963-198124 Sequence 198124, A
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## ALIGNMENTS

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RESULT 1
US-10-751-845-153
; Sequence 153, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 153
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-153

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Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9
Db 5 DTLEKLTNT 13

RESULT 2
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
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; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

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Best Local Similarity 100.0%; Pred. No. 0.61; Indels 0; Gaps 0;
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Qy 1 DTLEKLTNT 9
Db 47 DTLEKLTNT 55
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RESULT 3
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US200404025688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; PRIOR FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27

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Best Local Similarity 100.0%; Pred. No. 0.85; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9
Db 88 DTLEKLTNT 96

RESULT 4
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
```

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; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28

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Best Local Similarity 100.0%; Pred. No. 0.85;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTNT 9
DB      88 DTLEKLTNT 96

RESULT 5
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-6

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Best Local Similarity 100.0%; Pred. No. 0.93;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTNT 9
DB      94 DTLEKLTNT 102

RESULT 6
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
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; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

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Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTNT 9
DB      164 DTLEKLTNT 172

RESULT 7
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match          100.0%; Score 45; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTNT 9
DB      165 DTLEKLTNT 173

RESULT 8
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
```



CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO: 160  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 45; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 1.5;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 189 DTLEKLTNT 197

RESULT 9  
US-10-000-903-21  
; Sequence 21, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabezon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Bernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO: 21  
; LENGTH: 278  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-000-903-21

Query Match 100.0%; Score 45; DB 4; Length 278;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 199 DTLEKLTNT 207

RESULT 10  
US-10-899-771-21  
; Sequence 21, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771

CURRENT FILING DATE: 2004-07-27  
; PRIOR APPLICATION NUMBER: US/09/581,976  
; PRIOR FILING DATE: 2000-06-20  
; PRIOR APPLICATION NUMBER: PCT/EP98/08563  
; PRIOR FILING DATE: 1998-12-18  
; PRIOR APPLICATION NUMBER: GB 9727262.9  
; PRIOR FILING DATE: 1997-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO: 21  
; LENGTH: 278  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus  
; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type  
; OTHER INFORMATION: 18)  
US-10-899-771-21

Query Match 100.0%; Score 45; DB 5; Length 278;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 199 DTLEKLTNT 207

RESULT 11  
US-10-000-903-23  
; Sequence 23, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabezon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Bernande  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01  
; PRIOR APPLICATION NUMBER: PCT/EP98/05285  
; PRIOR FILING DATE: 1998-08-17  
; PRIOR APPLICATION NUMBER: GB 9717953.5  
; PRIOR FILING DATE: 1997-08-22  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO: 23  
; LENGTH: 383  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-000-903-23

Query Match 100.0%; Score 45; DB 4; Length 383;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 199 DTLEKLTNT 207

RESULT 12  
US-10-899-771-23  
; Sequence 23, Application US/10899771  
; Publication No. US20050031638A1  
; GENERAL INFORMATION:  
; APPLICANT: Dalemans, Wilfried L.J.  
; APPLICANT: Gerard, Catherine Marie Ghislaine  
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins  
; FILE REFERENCE: B45124  
; CURRENT APPLICATION NUMBER: US/10/899,771



```
/ CURRENT APPLICATION NUMBER: US/10/899,771
/ CURRENT FILING DATE: 2004-07-27
/ PRIOR APPLICATION NUMBER: US/09/581,976
/ PRIOR FILING DATE: 2000-06-20
/ PRIOR APPLICATION NUMBER: PCT/EP98/08563
/ PRIOR FILING DATE: 1998-12-19
/ PRIOR APPLICATION NUMBER: GB 9727262.9
/ PRIOR FILING DATE: 1997-12-24
/ NUMBER OF SEQ ID NOS: 28
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 23
/ LENGTH: 383
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
/ OTHER INFORMATION: influenzae B and B6E7 fusion from Human papilloma
/ OTHER INFORMATION: virus type 18)
/ US-10-899-771-23
```

```
Query Match          100.0%; Score 45; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Oy 1 DTLEKLTNT 9

Db 199 DTLEKLTNT 207

```
RESULT 13
/ US-11-021-949-29
/ Sequence 29, Application US/11021949
/ Publication No. US20050142541A1
/ GENERAL INFORMATION:
/ APPLICANT: LU, PETER
/ APPLICANT: GARMAN, JONATHAN DAVID
/ APPLICANT: BELMARES, MICHAEL P.
/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
/ APPLICANT: SCHWEIZER, JOHANNES
/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
/ TITLE OF INVENTION: AND METHODS OF THEIR USE
/ FILE REFERENCE: VITA-012
/ CURRENT APPLICATION NUMBER: US/11/021,949
/ CURRENT FILING DATE: 2004-12-23
/ PRIOR APPLICATION NUMBER: 60/532,373
/ PRIOR FILING DATE: 2003-12-23
/ NUMBER OF SEQ ID NOS: 361
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 29
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: human papilloma virus (HPV)
/ US-11-021-949-29

Query Match          86.7%; Score 39; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 13;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DTLEKLTNT 9
Db 88 ETLLEKLTNT 96

RESULT 14
/ US-10-739-930-6845
/ Sequence 6845, Application US/10739930
/ Publication No. US20040216190A1
/ GENERAL INFORMATION:
/ APPLICANT: KOVALIC, David K.
/ TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
/ TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
/ FILE REFERENCE: 38-21(53377)B
/ CURRENT APPLICATION NUMBER: US/10/739,930
```

```
/ CURRENT FILING DATE: 2003-12-18
/ NUMBER OF SEQ ID NOS: 11088
/ SEQ ID NO 6845
/ LENGTH: 181
/ TYPE: PRT
/ ORGANISM: Brassica napus
/ FEATURE:
/ OTHER INFORMATION: Clone ID: BRANA-23APR03-C11583_1.p
/ US-10-739-930-6845
```

```
Query Match          80.0%; Score 36; DB 5; Length 181;
Best Local Similarity 77.8%; Pred. No. 58;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

Oy 1 DTLEKLTNT 9

Db 81 DTLEKLTNTS 89

```
RESULT 15
/ US-11-097-143-22866
/ Sequence 22866, Application US/11097143
/ Publication No. US20050208558A1
/ GENERAL INFORMATION:
/ APPLICANT: Venter, J. Craig
/ APPLICANT: et al.
/ TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
/ TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
/ FILE REFERENCE: CLO00728
/ CURRENT APPLICATION NUMBER: US/11/097,143
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: 60/157,832
/ PRIOR FILING DATE: 1999-10-05
/ PRIOR APPLICATION NUMBER: 60/160,191
/ PRIOR FILING DATE: 1999-10-19
/ PRIOR APPLICATION NUMBER: 60/161,932
/ PRIOR FILING DATE: 1999-10-28
/ PRIOR APPLICATION NUMBER: 60/164,769
/ PRIOR FILING DATE: 1999-11-12
/ PRIOR APPLICATION NUMBER: 60/173,383
/ PRIOR FILING DATE: 1999-12-28
/ PRIOR APPLICATION NUMBER: 60/175,693
/ PRIOR FILING DATE: 2000-01-12
/ PRIOR APPLICATION NUMBER: 60/184,831
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: 60/191,637
/ PRIOR FILING DATE: 2000-03-23
/ NUMBER OF SEQ ID NOS: 43008
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 22866
/ LENGTH: 1087
/ TYPE: PRT
/ ORGANISM: DROSOPHILA
/ US-11-097-143-22866

Query Match          80.0%; Score 36; DB 6; Length 1087;
Best Local Similarity 87.5%; Pred. No. 4.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DTLEKLTNT 8
Db 504 DTLEKLTNTS 511

RESULT 16
/ US-11-097-143-22869
/ Sequence 22869, Application US/11097143
/ Publication No. US20050208558A1
/ GENERAL INFORMATION:
/ APPLICANT: Venter, J. Craig
/ APPLICANT: et al.
/ TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
```

```
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CLO000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22869
; LENGTH: 1087
; TYPE: PRT
; ORGANISM: DROSOPHILA
; US-11-097-143-22869
```

```
Query Match      80.0%; Score 36; DB 6; Length 1087;
Best Local Similarity 87.5%; Pred. No. 4.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 DTLEKLTNT 8
        :|||||:
Db      504 DTLEKLSN 511
```

```
RESULT 17
US-09-824-787B-2
; Sequence 2, Application US/09824787B
; Patent No. US20020155447A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Botrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040001
; CURRENT APPLICATION NUMBER: US/09/824,787B
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/194,463
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-824-787B-2
```

```
Query Match      77.8%; Score 35; DB 3; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 DTLEKLTNT 9
        :|||||:
Db      100 ETLKLTNS 108
```

```
RESULT 18
US-10-435-696-93
; Sequence 93, Application US/10435696
```

```
; Publication No. US20040018525A1
; GENERAL INFORMATION:
; APPLICANT: Wirtz, Ralph
; APPLICANT: Munnes, Marc
; APPLICANT: Kallabis, Harald
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE PREDICTION, DIAGNOSIS, PROGNOSIS
; TITLE OF INVENTION: PREVENTION AND TREATMENT OF MALIGNANT NEOPLASIA
; FILE REFERENCE: L6A 36 108
; CURRENT APPLICATION NUMBER: US/10/435,696
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: EP03003112.4
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: EP02010291.9
; PRIOR FILING DATE: 2002-05-21
; NUMBER OF SEQ ID NOS: 314
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 93
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-435-696-93
```

```
Query Match      77.8%; Score 35; DB 4; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 DTLEKLTNT 9
        :|||||:
Db      100 ETLKLTNS 108
```

```
RESULT 19
US-10-457-829-2
; Sequence 2, Application US/10457829
; Publication No. US20040063907A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Evans, Elizabeth E.
; APPLICANT: Botrello, Melinda A.
; TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
; TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides
; FILE REFERENCE: 1821.0040005
; CURRENT APPLICATION NUMBER: US/10/457,829
; CURRENT FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: US 60/464,650
; PRIOR FILING DATE: 2003-04-23
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-457-829-2
```

```
Query Match      77.8%; Score 35; DB 4; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 DTLEKLTNT 9
        :|||||:
Db      100 ETLKLTNS 108
```

```
RESULT 20
US-10-887-230-2
; Sequence 2, Application US/10887230
; Publication No. US20050042218A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; TITLE OF INVENTION: MHC Class I - Peptide-Antibody Conjugates with Modified
; TITLE OF INVENTION: B2-Microglobulin
; FILE REFERENCE: 1843.0160002
; CURRENT APPLICATION NUMBER: US/10/887,230
```

```
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: US 60/485,716
; PRIOR FILING DATE: 2003-7-10
; PRIOR APPLICATION NUMBER: US 60/513,043
; PRIOR FILING DATE: 2003-10-22
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-887-230-2
```

```
Query Match          77.8%; Score 35; DB 5; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
DB      100 ETLKLTNS 108
```

```
RESULT 21
US-10-855-588-86
; Sequence 86, Application US/10855588
; Publication No. US20050042642A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Monahan, John
; APPLICANT: Hoersch, Sebastien
; APPLICANT: Anderson, Dustin
; APPLICANT: Endege, Wilson
; APPLICANT: Ford, Donna
; APPLICANT: Glat, Karen
; APPLICANT: Gorbatcheva, Belle
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Xu, Yong Yao
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Zhao, Xumei
; APPLICANT: Robert Schlegel
; APPLICANT: Maureen Mertens
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-064
; CURRENT APPLICATION NUMBER: US/10/855,588
; CURRENT FILING DATE: 2004-05-26
; PRIOR APPLICATION NUMBER: 60/474,281
; PRIOR FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: 60/555,557
; PRIOR FILING DATE: 2004-03-24
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: Patentin version 4.0
; SEQ ID NO 86
; LENGTH: 115
; TYPE: PRT
; ORGANISM: human
US-10-855-588-86
```

```
Query Match          77.8%; Score 35; DB 5; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
DB      100 ETLKLTNS 108
```

```
RESULT 22
US-11-003-819-2
; Sequence 2, Application US/11003819
; Publication No. US20050158323A1
; GENERAL INFORMATION:
; APPLICANT: Evans, Elizabeth E.
```

```
; APPLICANT: Paris, Mark J.
; APPLICANT: Sahasrabudhe, Deepak M.
; APPLICANT: Zauderer, Maurice
; APPLICANT: Smith, Ernest S.
; TITLE OF INVENTION: Methods of Killing Tumor Cells by Targeting Internal Antigens
; FILE REFERENCE: 1843 0190002
; CURRENT APPLICATION NUMBER: US/11/003,819
; CURRENT FILING DATE: 2004-12-06
; PRIOR APPLICATION NUMBER: US 60/256,572
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/531,688
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 2
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-003-819-2
```

```
Query Match          77.8%; Score 35; DB 6; Length 115;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
DB      100 ETLKLTNS 108
```

```
RESULT 23
US-09-833-203-34
; Sequence 34, Application US/09833203
; Publication No. US20030166277A1
; GENERAL INFORMATION:
; APPLICANT: Zauderer, Maurice
; APPLICANT: Smith, Ernest S.
; TITLE OF INVENTION: Targeted Vaccine Delivery Systems
; FILE REFERENCE: 1821.0020001
; CURRENT APPLICATION NUMBER: US/09/833,203
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: US 60/196,472
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 34
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: C35
US-09-833-203-34
```

```
Query Match          77.8%; Score 35; DB 3; Length 117;
Best Local Similarity 66.7%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
        :|||||:
DB      102 ETLKLTNS 110
```

```
RESULT 24
US-10-264-049-4187
; Sequence 4187, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
```

PRIOR APPLICATION NUMBER: PCT/US01/18569  
PRIOR FILING DATE: 2001-06-07  
PRIOR APPLICATION NUMBER: US 60/209,467  
PRIOR FILING DATE: 2000-06-07  
NUMBER OF SEQ ID NOS: 4360  
SOFTWARE: PatentIn Ver. 3.1  
SEQ ID NO 4187  
LENGTH: 124  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-264-049-4187

Query Match 77.8%; Score 35; DB 4; Length 124;  
Best Local Similarity 66.7%; Pred. No. 59;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
:|||||:  
Db 109 ETLKLTNTS 117

RESULT 25  
US-09-925-301-966  
Sequence 966, Application US/09925301  
Patent No. US20020052308A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA106  
CURRENT APPLICATION NUMBER: US/09/925,301  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05882  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
PRIOR FILING DATE: 1999-03-12  
NUMBER OF SEQ ID NOS: 1694  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 966  
LENGTH: 131  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-925-301-966

Query Match 77.8%; Score 35; DB 3; Length 131;  
Best Local Similarity 66.7%; Pred. No. 63;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
:|||||:  
Db 116 ETLKLTNTS 124

RESULT 26  
US-10-457-829-155  
Sequence 155, Application US/10457829  
Publication No. US20040063907A1  
GENERAL INFORMATION:  
APPLICANT: Zauderer, Maurice  
APPLICANT: Evans, Elizabeth E.  
APPLICANT: Borrelli, Melinda A.  
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and  
TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides  
FILE REFERENCE: 1821.0040005  
CURRENT APPLICATION NUMBER: US/10/457,829  
CURRENT FILING DATE: 2003-06-10  
PRIOR APPLICATION NUMBER: US 60/464,650  
PRIOR FILING DATE: 2003-04-23  
NUMBER OF SEQ ID NOS: 160  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 155  
LENGTH: 131  
TYPE: PRT  
ORGANISM: Homo sapiens

US-10-457-829-155

Query Match 77.8%; Score 35; DB 4; Length 131;  
Best Local Similarity 66.7%; Pred. No. 63;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
:|||||:  
Db 116 ETLKLTNTS 124

RESULT 27  
US-10-617-320-4010  
Sequence 4010, Application US/10617320  
Publication No. US20050136404A1  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID  
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOSIS  
THERAPEUTICS  
NUMBER OF SEQUENCES: 5206  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354

COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: <Unknown>  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: <Unknown>

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/617,320  
FILING DATE: 10-Jul-2003  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/107,433  
FILING DATE: 30-Jun-1998  
APPLICATION NUMBER: 60/085131  
FILING DATE: May 12, 1998  
APPLICATION NUMBER: 60/051553  
FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:  
NAME: Arinello, Pamela Deneke  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-5007  
TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 4010:  
SEQUENCE CHARACTERISTICS:

LENGTH: 180 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Streptococcus pneumoniae

FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...180  
SEQUENCE DESCRIPTION: SEQ ID NO: 4010:  
US-10-617-320-4010

Query Match 77.8%; Score 35; DB 5; Length 180;  
Best Local Similarity 87.5%; Pred. No. 90;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
:|||||:  
Db 159 TLEKLTNT 166

RESULT 28  
US-10-177-293-480  
Sequence 480, Application US/10177293  
Publication No. US20030124128A1  
GENERAL INFORMATION:  
APPLICANT: Lillie, James  
APPLICANT: Glatt, Karen  
APPLICANT: Zhao, Xumei  
APPLICANT: Ganaveyru, Manjula  
APPLICANT: Kamatkar, Shubhangi  
APPLICANT: Mertens, Maureen  
APPLICANT: Myer, Vic  
APPLICANT: Wang, Youzhen  
APPLICANT: Xu, Yongyao  
APPLICANT: Hoersch, Sebastian  
APPLICANT: Monahan, John  
APPLICANT: Meyers, Rachel E.  
APPLICANT: Baer Jr., Robert C.  
APPLICANT: Horobagyi, Gabriel N.  
APPLICANT: Puertal, Lajos  
APPLICANT: Meric, Funda  
APPLICANT: Sahin, Aysegul  
APPLICANT: Mills, Gordon B.  
TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,  
PREVENTION, AND THERAPY OF BREAST CANCER  
FILE REFERENCE: MRI-038  
CURRENT APPLICATION NUMBER: US/10/177,293  
CURRENT FILING DATE: 2002-06-21  
PRIOR APPLICATION NUMBER: US 60/299,887  
PRIOR FILING DATE: 2001-06-21  
PRIOR APPLICATION NUMBER: US 60/301,572  
PRIOR FILING DATE: 2001-06-27  
PRIOR APPLICATION NUMBER: US 60/306,501  
PRIOR FILING DATE: 2001-07-18  
PRIOR APPLICATION NUMBER: US 60/325,002  
PRIOR FILING DATE: 2001-09-25  
PRIOR APPLICATION NUMBER: US 60/362,585  
PRIOR FILING DATE: 2002-03-05  
PRIOR APPLICATION NUMBER: US 60/xxx,xxx  
PRIOR FILING DATE: 2002-05-14  
NUMBER OF SEQ ID NOS: 506  
SOFTWARE: FaastSeq for Windows Version 4.0  
SEQ ID NO 480  
LENGTH: 206  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-177-293-480

Query Match 77.8% Score 35; DB 4; Length 206;  
Best Local Similarity 66.7%; Pred. No. 1e+02;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
DB 191 ETLLEKLTNS 199

RESULT 29  
US-09-765-272-6  
Sequence 6, Application US/09765272  
Parent No. US20020061545A1  
GENERAL INFORMATION:  
APPLICANT: Choi et. al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
NUMBER OF SEQUENCES: 452  
CORRESPONDENCE ADDRESSES:  
ADDRESSER: Human Genome Sciences, Inc.  
STREET: 9410 Key West Avenue  
CITY: Rockville  
STATE: Maryland  
COUNTRY: USA  
ZIP: 20850

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage  
COMPUTER: HP Vectra 486/33  
OPERATING SYSTEM: MSDOS version 6.2  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/765,272  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/961,083  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Brookes, A. Anders  
REGISTRATION NUMBER: 36,373  
REFERENCE/DOCKET NUMBER: PB340P2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (301) 309-8504  
TELEFAX: (301) 309-8512  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 249 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-765-272-6

Query Match 77.8% Score 35; DB 3; Length 249;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
DB 228 TLEKLTNT 235

RESULT 30  
US-11-106-649-6  
Sequence 6, Application US/11106649  
Publication No. US20050181439A1  
GENERAL INFORMATION:  
APPLICANT: Choi et al.  
TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines  
FILE REFERENCE: PB340P2C3D1  
CURRENT APPLICATION NUMBER: US/11/106,649  
CURRENT FILING DATE: 2005-04-15  
PRIOR APPLICATION NUMBER: US 09/765,271  
PRIOR FILING DATE: 2001-01-22  
PRIOR APPLICATION NUMBER: US 09/536,784  
PRIOR FILING DATE: 2000-03-28  
PRIOR APPLICATION NUMBER: US 08/961,083  
PRIOR FILING DATE: 1997-10-30  
PRIOR APPLICATION NUMBER: US 60/029,960  
PRIOR FILING DATE: 1996-10-31  
NUMBER OF SEQ ID NOS: 454  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 6  
LENGTH: 249  
TYPE: PRT  
ORGANISM: Streptococcus pneumoniae  
US-11-106-649-6

Query Match 77.8% Score 35; DB 6; Length 249;  
Best Local Similarity 87.5%; Pred. No. 1.3e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
DB 228 TLEKLTNT 235

```
RESULT 31
US-09-765-272-226
; Sequence 226, Application US/09765272
; Patent No. US20020061545A1
; GENERAL INFORMATION:
; APPLICANT: Choi et. al.
; TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines
; NUMBER OF SEQUENCES: 452
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/765,272
; FILING DATE: 22-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/961,083
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB340P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
;
; INFORMATION FOR SEQ ID NO: 226:
; LENGTH: 250 amino acids
; SEQUENCE CHARACTERISTICS:
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 226:
US-09-765-272-226

Query Match 77.8%; Score 35; DB 3; Length 250;
Best Local Similarity 87.5%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9
Db 229 TLEKLSNT 236

RESULT 32
US-11-106-649-226
; Sequence 226, Application US/11106649
; Publication No. US20050181439A1
; GENERAL INFORMATION:
; APPLICANT: Choi et al.
; TITLE OF INVENTION: Streptococcus pneumoniae Antigens and Vaccines
; FILE REFERENCE: PB340P2C3D1
; CURRENT APPLICATION NUMBER: US/11/106,649
; PRIOR FILING DATE: 2005-04-15
; PRIOR APPLICATION NUMBER: US 09/765,271
; PRIOR FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 09/536,784
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: US 08/961,083
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 60/029,960
; PRIOR FILING DATE: 1996-10-31
; NUMBER OF SEQ ID NOS: 454
; SOFTWARE: PatentIn version 3.3
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```
; SEQ ID NO 226
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-106-649-226

Query Match 77.8%; Score 35; DB 6; Length 250;
Best Local Similarity 87.5%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9
Db 229 TLEKLSNT 236

RESULT 33
US-09-769-787-165
; Sequence 165, Application US/09769787
; Publication No. US20030091577A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Techniques Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/P21129WO
; CURRENT APPLICATION NUMBER: US/09/769,787
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 165
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-769-787-165

Query Match 77.8%; Score 35; DB 3; Length 266;
Best Local Similarity 87.5%; Pred. No. 1.4e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9
Db 245 TLEKLSNT 252

RESULT 34
US-10-472-928-1130
; Sequence 1130, Application US/10472928
; Publication No. US2005020813A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; TITLE OF INVENTION: THE INSTITUTE FOR GENOMIC RESEARCH
; FILE REFERENCE: P026926WO
; CURRENT APPLICATION NUMBER: US/10/472,928
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: GB-0107658.7
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4979
; SOFTWARE: SeqWin99, version 1.03
; SEQ ID NO 1130
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; OTHER INFORMATION: amino acid ABC transporter, amino acid-binding protein, putative
; OTHER INFORMATION: Cellular location: lipoprotein
; OTHER INFORMATION: Similar to strain R6 sequence 15902589 (e-151)
US-10-472-928-1130
```

Query Match 77.8%; Score 35; DB 5; Length 271;  
Best Local Similarity 87.5%; Pred. No. 1.4e+02;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DTLEKLTNT 9  
Db 250 TLEKLSNT 257

RESULT 35  
US-10-369-493-1100  
; Sequence 1100, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:

; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; PRIOR FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 1100  
; LENGTH: 303  
; TYPE: PRT  
; ORGANISM: Methanobacterium thermoautotrophicum  
US-10-369-493-1100

Query Match 77.8%; Score 35; DB 4; Length 303;  
Best Local Similarity 66.7%; Pred. No. 1.6e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 203 DTVESITNT 211

RESULT 36  
US-10-732-923-20255  
; Sequence 20255, Application US/10732923  
; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; PRIOR FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20255  
; LENGTH: 463  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20255

Query Match 77.8%; Score 35; DB 5; Length 463;  
Best Local Similarity 77.8%; Pred. No. 2.6e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 40 DCFEKLNT 48

RESULT 37  
US-10-732-923-20254  
; Sequence 20254, Application US/10732923

; Publication No. US20050108791A1

; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; PRIOR FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20254  
; LENGTH: 594  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20254

Query Match 77.8%; Score 35; DB 5; Length 594;  
Best Local Similarity 77.8%; Pred. No. 3.4e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 162 DCFEKLNT 170

RESULT 38  
US-10-732-923-20252  
; Sequence 20252, Application US/10732923  
; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; PRIOR FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20252  
; LENGTH: 603  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20252

Query Match 77.8%; Score 35; DB 5; Length 603;  
Best Local Similarity 77.8%; Pred. No. 3.5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 171 DCFEKLNT 179

RESULT 39  
US-10-732-923-20253  
; Sequence 20253, Application US/10732923  
; Publication No. US20050108791A1  
; GENERAL INFORMATION:  
; APPLICANT: Edgerton, Michael D  
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES  
; FILE REFERENCE: 38-15(52796)C  
; CURRENT APPLICATION NUMBER: US/10/732,923  
; PRIOR FILING DATE: 2003-12-10  
; PRIOR APPLICATION NUMBER: 10/310,154  
; PRIOR FILING DATE: 2002-12-04  
; NUMBER OF SEQ ID NOS: 24149  
; SEQ ID NO 20253  
; LENGTH: 603  
; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
US-10-732-923-20253

Query Match 77.8%; Score 35; DB 5; Length 603;

Best Local Similarity 77.8%; Pred. No. 3.5e+02;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 171 DCEFKLTNT 179

## RESULT 40

US-10-369-493-10074  
; Sequence 10074, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILF REFERENCE: 38-101520521B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; PRIOR FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 10074  
; LENGTH: 982  
; TYPE: PRT  
; ORGANISM: magnetite-containing magnetic coccus  
US-10-369-493-10074

Query Match 77.8%; Score 35; DB 4; Length 982;  
Best Local Similarity 87.5%; Pred. No. 6.1e+02;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DTLEKLTN 8  
Db 335 DTLESLTN 342

## RESULT 41

US-10-282-122A-69274  
; Sequence 69274, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 69274  
; LENGTH: 1211  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-10-282-122A-69274

Query Match 77.8%; Score 35; DB 4; Length 1211;  
Best Local Similarity 77.8%; Pred. No. 7.7e+02;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DTLEKLTNT 9  
Db 185 ELEKLTNT 193

## RESULT 42

US-10-282-122A-67605  
; Sequence 67605, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Karl  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 67605  
; LENGTH: 1214



TYPE: PRT  
ORGANISM: Pseudomonas putida  
US-10-282-122A-67605

Query Match 77.8%; Score 35; DB 4; Length 1214;  
Best Local Similarity 77.8%; Pred. No. 7.7e+02;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
Db 186 ETLLEKLTNT 194

RESULT 43  
US-09-824-787B-117  
Sequence 117, Application US/09824787B  
Patent No. US20020155447A1  
GENERAL INFORMATION:  
APPLICANT: Zauderer, Maurice  
APPLICANT: Evans, Elizabeth E.  
APPLICANT: Borrello, Melinda A.  
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and  
TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides  
FILE REFERENCE: 1821.0040001  
CURRENT APPLICATION NUMBER: US/09/824,787B  
CURRENT FILING DATE: 2001-04-04  
PRIOR APPLICATION NUMBER: 60/194,463  
PRIOR FILING DATE: 2000-04-04  
NUMBER OF SEQ ID NOS: 147  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 117  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-824-787B-117

Query Match 75.6%; Score 34; DB 3; Length 9;  
Best Local Similarity 75.0%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8  
Db 1 ETLLEKLTNT 8

RESULT 44  
US-10-457-829-117  
Sequence 117, Application US/10457829  
Publication No. US20040063907A1  
GENERAL INFORMATION:  
APPLICANT: Zauderer, Maurice  
APPLICANT: Evans, Elizabeth E.  
APPLICANT: Borrello, Melinda A.  
TITLE OF INVENTION: A Gene Differentially Expressed in Breast and  
TITLE OF INVENTION: Bladder Cancer, and Encoded Polypeptides  
FILE REFERENCE: 1821.0040005  
CURRENT APPLICATION NUMBER: US/10/457,829  
CURRENT FILING DATE: 2003-06-10  
PRIOR APPLICATION NUMBER: US 60/464,650  
PRIOR FILING DATE: 2003-04-23  
NUMBER OF SEQ ID NOS: 160  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 117  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-457-829-117

Query Match 75.6%; Score 34; DB 4; Length 9;  
Best Local Similarity 75.0%; Pred. No. 1.7e+06;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8

Db 1 ETLLEKLTNT 8

RESULT 45  
US-10-026-911-6  
Sequence 6, Application US/10026911  
Publication No. US20030078201A1  
GENERAL INFORMATION:  
APPLICANT: Focke, Margarete  
APPLICANT: Mahler, Vera  
APPLICANT: Speer, Wolfgang R.  
APPLICANT: Valent, Peter  
APPLICANT: Kraft, Dietrich  
APPLICANT: Valenta, Rudolf  
TITLE OF INVENTION: Allergy Vaccines and Their Preparation  
FILE REFERENCE: 0273-0005  
CURRENT APPLICATION NUMBER: US/10/026,911  
CURRENT FILING DATE: 2002-07-24  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 31  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:  
OTHER INFORMATION: solvent-exposed peptide  
US-10-026-911-6

Query Match 75.6%; Score 34; DB 4; Length 31;  
Best Local Similarity 75.0%; Pred. No. 20;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8  
Db 21 DTLEKLTNT 28

RESULT 46  
US-10-799-514-6  
Sequence 6, Application US/10799514  
Publication No. US20040241178A1  
GENERAL INFORMATION:  
APPLICANT: Spertini, Francois  
APPLICANT: Cortesey, Blaise  
TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof  
FILE REFERENCE: 25720-502  
CURRENT APPLICATION NUMBER: US/10/799,514  
CURRENT FILING DATE: 2004-03-12  
PRIOR APPLICATION NUMBER: 60/453,004  
PRIOR FILING DATE: 2003-03-14  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 80  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
OTHER INFORMATION: Peptide  
US-10-799-514-6

Query Match 75.6%; Score 34; DB 5; Length 80;  
Best Local Similarity 75.0%; Pred. No. 57;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 8  
Db 14 DTLEKLTNT 21

RESULT 47

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US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match          75.6%; Score 34; DB 6; Length 149;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 DTLEKLTN 8
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Db      87 DTLEKLTN 93

RESULT 48
US-10-799-514-19
; Sequence 19, Application US/10799514
; Publication No. US20040241178A1
; GENERAL INFORMATION:
; APPLICANT: Spertini, Francois
; APPLICANT: Cortesey, Blaise
; TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
; FILE REFERENCE: 25720-502
; CURRENT APPLICATION NUMBER: US/10/799,514
; CURRENT FILING DATE: 2004-03-12
; PRIOR APPLICATION NUMBER: 60/455,004
; PRIOR FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-799-514-19

Query Match          75.6%; Score 34; DB 5; Length 153;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
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Db      87 DTLEKLTN 94

RESULT 49
US-10-799-514-21
; Sequence 21, Application US/10799514
; Publication No. US20040241178A1
; GENERAL INFORMATION:
; APPLICANT: Spertini, Francois
; APPLICANT: Cortesey, Blaise
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; TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
; FILE REFERENCE: 25720-502
; CURRENT APPLICATION NUMBER: US/10/799,514
; CURRENT FILING DATE: 2004-03-12
; PRIOR APPLICATION NUMBER: 60/455,004
; PRIOR FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-799-514-21

Query Match          75.6%; Score 34; DB 5; Length 153;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
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Db      14 DTLEKLTN 21

RESULT 50
US-09-981-009B-1
; Sequence 1, Application US/09981009B
; Publication No. US20030041354A1
; GENERAL INFORMATION:
; APPLICANT: Kjaerulf, Soren
; APPLICANT: Kroggen, Erwin
; TITLE OF INVENTION: Transgenic Plants
; FILE REFERENCE: 10082.200-US
; CURRENT APPLICATION NUMBER: US/09/981,009B
; CURRENT FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-981-009B-1

Query Match          75.6%; Score 34; DB 3; Length 159;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DTLEKLTN 8
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Db      93 DTLEKLTN 100

Search completed: May 5, 2006, 08:18:00
Job time : 61.8 secs
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GenCore version 5.1.7  
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OM protein - protein search, using bw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds  
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Title: US-08-170-344-28  
Perfect score: 45  
Sequence: 1 DTLEKLTNT 9

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Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

## Database :

Published Applications\_AA\_New:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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2	39	86.7	11	9	US-10-530-061-45 Sequence 45, Appl
3	39	86.7	11	9	US-10-530-061-50 Sequence 50, Appl
4	39	86.7	11	9	US-10-530-061-111 Sequence 111, Appl
5	39	86.7	158	9	US-10-530-253-20 Sequence 20, Appl
6	37	82.2	11	9	US-10-530-061-51 Sequence 51, Appl
7	36	80.0	173	9	US-10-523-362-38 Sequence 38, Appl
8	35	77.8	115	11	US-11-155-288-11 Sequence 11, Appl
9	35	77.8	115	11	US-11-233-510-6 Sequence 6, Appl
10	35	77.8	266	9	US-10-873-528-165 Sequence 165, Appl
11	34	75.6	9	9	US-10-530-061-614 Sequence 614, Appl
12	34	75.6	10	9	US-10-530-061-542 Sequence 542, Appl
13	34	75.6	149	9	US-10-530-253-16 Sequence 16, Appl
14	34	75.6	160	9	US-10-498-026-81 Sequence 81, Appl
15	34	75.6	172	11	US-11-102-883-18 Sequence 18, Appl
16	34	75.6	289	11	US-11-102-883-26 Sequence 26, Appl
17	34	75.6	300	11	US-11-102-883-6 Sequence 6, Appl
18	32	71.1	158	9	US-10-530-253-19 Sequence 19, Appl
19	32	71.1	326	9	US-10-815-002-213 Sequence 213, Appl
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69	31	68.9	251	11	US-11-054-515-894 Sequence 894, Appl
70	31	68.9	251	11	US-11-054-515-903 Sequence 903, Appl
71	31	68.9	251	11	US-11-054-515-910 Sequence 910, Appl
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79	31	68.9	251	11	US-11-054-515-1130 Sequence 1130, Appl
80	31	68.9	251	11	US-11-054-515-1137 Sequence 1137, Appl
81	31	68.9	251	11	US-11-054-515-1140 Sequence 1140, Appl
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84	31	68.9	251	11	US-11-054-515-1148 Sequence 1148, Appl
85	31	68.9	251	11	US-11-054-515-1149 Sequence 1149, Appl
86	31	68.9	251	11	US-11-054-515-1151 Sequence 1151, Appl
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96	31	68.9	251	11	US-11-054-515-1224	Sequence 1224, Ap	169	31	68.9	252	11	US-11-266-444-1131	Sequence 1131, Ap
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101	31	68.9	251	11	US-11-054-515-1591	Sequence 1591, Ap	174	31	68.9	252	11	US-11-266-444-1236	Sequence 1236, Ap
102	31	68.9	251	11	US-11-054-515-1712	Sequence 1712, Ap	175	31	68.9	252	11	US-11-266-444-1291	Sequence 1291, Ap
103	31	68.9	251	11	US-11-054-515-1832	Sequence 1832, Ap	176	31	68.9	252	11	US-11-266-444-1376	Sequence 1376, Ap
104	31	68.9	251	11	US-11-054-515-1840	Sequence 1840, Ap	177	31	68.9	252	11	US-11-266-444-1378	Sequence 1378, Ap
105	31	68.9	251	11	US-11-266-444-890	Sequence 890, App	178	31	68.9	252	11	US-11-266-444-1393	Sequence 1393, Ap
106	31	68.9	251	11	US-11-266-444-891	Sequence 891, App	179	31	68.9	252	11	US-11-266-444-1505	Sequence 1505, Ap
107	31	68.9	251	11	US-11-266-444-894	Sequence 894, App	180	31	68.9	252	11	US-11-266-444-1517	Sequence 1517, Ap
108	31	68.9	251	11	US-11-266-444-903	Sequence 903, App	181	31	68.9	252	11	US-11-266-444-1549	Sequence 1549, Ap
109	31	68.9	251	11	US-11-266-444-910	Sequence 910, App	182	31	68.9	252	11	US-11-266-444-1575	Sequence 1575, Ap
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118	31	68.9	251	11	US-11-266-444-1130	Sequence 1130, Ap	191	31	68.9	254	11	US-11-266-444-1165	Sequence 1165, Ap
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121	31	68.9	251	11	US-11-266-444-1147	Sequence 1147, Ap	194	31	68.9	256	11	US-11-054-515-1230	Sequence 1230, Ap
122	31	68.9	251	11	US-11-266-444-1148	Sequence 1148, Ap	195	31	68.9	256	11	US-11-266-444-1150	Sequence 1150, Ap
123	31	68.9	251	11	US-11-266-444-1149	Sequence 1149, Ap	196	31	68.9	256	11	US-11-266-444-1230	Sequence 1230, Ap
124	31	68.9	251	11	US-11-266-444-1151	Sequence 1151, Ap	197	31	68.9	270	11	US-11-188-299-22192	Sequence 22192, A
125	31	68.9	251	11	US-11-266-444-1152	Sequence 1152, Ap	198	31	68.9	275	11	US-11-188-299-18775	Sequence 18775, A
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127	31	68.9	251	11	US-11-266-444-1157	Sequence 1157, Ap	200	31	68.9	317	11	US-11-087-099-5330	Sequence 5330, Ap
128	31	68.9	251	11	US-11-266-444-1162	Sequence 1162, Ap	201	31	68.9	317	11	US-11-188-299-5839	Sequence 5839, Ap
129	31	68.9	251	11	US-11-266-444-1166	Sequence 1166, Ap	202	31	68.9	317	11	US-11-188-299-10603	Sequence 10603, A
130	31	68.9	251	11	US-11-266-444-1211	Sequence 1211, Ap	203	31	68.9	317	11	US-11-188-299-10603	Sequence 10603, A
131	31	68.9	251	11	US-11-266-444-1216	Sequence 1216, Ap	204	31	68.9	368	9	US-10-523-503-40	Sequence 40, Appl
132	31	68.9	251	11	US-11-266-444-1219	Sequence 1219, Ap	205	31	68.9	574	11	US-11-188-299-6884	Sequence 6884, Ap
133	31	68.9	251	11	US-11-266-444-1220	Sequence 1220, Ap	206	31	68.9	574	11	US-11-188-299-18570	Sequence 18570, A
134	31	68.9	251	11	US-11-266-444-1224	Sequence 1224, Ap	207	31	68.9	757	11	US-11-090-617-554	Sequence 554, App
135	31	68.9	251	11	US-11-266-444-1232	Sequence 1232, Ap	208	31	68.9	1771	9	US-10-506-454-1532	Sequence 1532, Ap
136	31	68.9	251	11	US-11-266-444-1373	Sequence 1373, Ap	209	30	66.7	110	11	US-11-045-004-1637	Sequence 1637, Ap
137	31	68.9	251	11	US-11-266-444-1501	Sequence 1501, Ap	210	30	66.7	111	11	US-11-045-004-0298	Sequence 298, App
138	31	68.9	251	11	US-11-266-444-1556	Sequence 1556, Ap	211	30	66.7	128	11	US-11-158-848-16	Sequence 16, Appl
139	31	68.9	251	11	US-11-266-444-1591	Sequence 1591, Ap	212	30	66.7	128	11	US-11-158-848-33	Sequence 33, Appl
140	31	68.9	251	11	US-11-266-444-1712	Sequence 1712, Ap	213	30	66.7	129	11	US-11-158-848-15	Sequence 15, Appl
141	31	68.9	251	11	US-11-266-444-1832	Sequence 1832, Ap	214	30	66.7	129	11	US-11-158-848-32	Sequence 32, Appl
142	31	68.9	251	11	US-11-266-444-1840	Sequence 1840, Ap	215	30	66.7	130	11	US-11-158-848-31	Sequence 31, Appl
143	31	68.9	252	11	US-11-054-515-897	Sequence 897, App	216	30	66.7	130	11	US-11-158-848-31	Sequence 31, Appl
144	31	68.9	252	11	US-11-054-515-1016	Sequence 1016, Ap	217	30	66.7	131	11	US-11-158-848-13	Sequence 13, Appl
145	31	68.9	252	11	US-11-054-515-1021	Sequence 1021, Ap	218	30	66.7	131	11	US-11-158-848-30	Sequence 30, Appl
146	31	68.9	252	11	US-11-054-515-1048	Sequence 1048, Ap	219	30	66.7	132	11	US-11-158-848-12	Sequence 12, Appl
147	31	68.9	252	11	US-11-054-515-1118	Sequence 1118, Ap	220	30	66.7	132	11	US-11-158-848-29	Sequence 29, Appl
148	31	68.9	252	11	US-11-054-515-1191	Sequence 1191, Ap	221	30	66.7	132	11	US-11-158-848-26	Sequence 26, Appl
149	31	68.9	252	11	US-11-054-515-1195	Sequence 1195, Ap	222	30	66.7	133	11	US-11-158-848-11	Sequence 11, Appl
150	31	68.9	252	11	US-11-054-515-1145	Sequence 1145, Ap	223	30	66.7	133	11	US-11-158-848-28	Sequence 28, Appl
151	31	68.9	252	11	US-11-054-515-1163	Sequence 1163, Ap	224	30	66.7	134	11	US-11-158-848-10	Sequence 10, Appl
152	31	68.9	252	11	US-11-054-515-1282	Sequence 1282, Ap	225	30	66.7	134	11	US-11-158-848-27	Sequence 27, Appl
153	31	68.9	252	11	US-11-054-515-1281	Sequence 1281, Ap	226	30	66.7	135	11	US-11-158-848-9	Sequence 9, Appl
154	31	68.9	252	11	US-11-054-515-1236	Sequence 1236, Ap	227	30	66.7	135	11	US-11-158-848-26	Sequence 26, Appl
155	31	68.9	252	11	US-11-054-515-1376	Sequence 1376, Ap	228	30	66.7	136	11	US-11-158-848-8	Sequence 8, Appl
156	31	68.9	252	11	US-11-054-515-1378	Sequence 1378, Ap	229	30	66.7	136	11	US-11-158-848-25	Sequence 25, Appl
157	31	68.9	252	11	US-11-054-515-1493	Sequence 1493, Ap	230	30	66.7	137	11	US-11-158-848-7	Sequence 7, Appl
158	31	68.9	252	11	US-11-054-515-1505	Sequence 1505, Ap	231	30	66.7	137	11	US-11-158-848-24	Sequence 24, Appl
159	31	68.9	252	11	US-11-054-515-1517	Sequence 1517, Ap	232	30	66.7	138	11	US-11-158-848-6	Sequence 6, Appl
160	31	68.9	252	11	US-11-054-515-1549	Sequence 1549, Ap	233	30	66.7	138	11	US-11-158-848-23	Sequence 23, Appl
161	31	68.9	252	11	US-11-054-515-1575	Sequence 1575, Ap	234	30	66.7	139	11	US-11-158-848-5	Sequence 5, Appl
162	31	68.9	252	11	US-11-054-515-1590	Sequence 1590, Ap	235	30	66.7	139	11	US-11-158-848-22	Sequence 22, Appl
163	31	68.9	252	11	US-11-054-515-1861	Sequence 1861, Ap	236	30	66.7	140	11	US-11-158-848-4	Sequence 4, Appl
164	31	68.9	252	11	US-11-266-444-897	Sequence 897, App	237	30	66.7	140	11	US-11-158-848-21	Sequence 21, Appl
165	31	68.9	252	11	US-11-266-444-1016	Sequence 1016, Ap	238	30	66.7	140	11	US-11-158-848-34	Sequence 34, Appl
166	31	68.9	252	11	US-11-266-444-1021	Sequence 1021, Ap	239	30	66.7	141	11	US-11-158-848-3	Sequence 3, Appl
167	31	68.9	252	11	US-11-266-444-1048	Sequence 1048, Ap	240	30	66.7	141	11	US-11-158-848-20	Sequence 20, Appl

241	30	66.7	142	11	US-11-158-848-2	Sequence 2, Appl1	314	29	64.4	314	11	US-11-188-298-12324	Sequence 12324, A
242	30	66.7	142	11	US-11-158-848-19	Sequence 19, Appl1	315	29	64.4	320	11	US-11-188-298-11334	Sequence 11234, A
243	30	66.7	143	11	US-11-158-848-1	Sequence 1, Appl1	316	29	64.4	328	11	US-11-188-298-11360	Sequence 13760, A
244	30	66.7	143	11	US-11-158-848-17	Sequence 17, Appl1	317	29	64.4	353	11	US-11-096-5684-31346	Sequence 31346, A
245	30	66.7	146	9	US-10-519-330-10	Sequence 10, Appl1	318	29	64.4	375	11	US-11-188-298-8393	Sequence 8393, A
246	30	66.7	146	11	US-11-176-830-199	Sequence 199, App	319	29	64.4	380	11	US-11-188-298-406	Sequence 406, App
247	30	66.7	146	11	US-11-176-830-290	Sequence 290, App	320	29	64.4	411	11	US-11-188-298-18503	Sequence 18503, A
248	30	66.7	146	11	US-11-176-830-291	Sequence 291, App	321	29	64.4	414	11	US-11-188-298-12871	Sequence 12871, A
249	30	66.7	146	11	US-11-176-830-292	Sequence 292, App	322	29	64.4	430	11	US-11-096-5684-14483	Sequence 14483, A
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252	30	66.7	146	11	US-11-176-830-295	Sequence 295, App	325	29	64.4	502	11	US-11-079-463-5899	Sequence 5899, App
253	30	66.7	146	11	US-11-176-830-296	Sequence 296, App	326	29	64.4	566	11	US-11-045-004-1774	Sequence 1774, App
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255	30	66.7	146	11	US-11-176-830-298	Sequence 298, App	328	29	64.4	573	11	US-11-188-298-4740	Sequence 4740, App
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258	30	66.7	146	11	US-11-176-830-301	Sequence 301, App	331	29	64.4	971	8	US-10-505-928-1397	Sequence 397, App
259	30	66.7	146	11	US-11-176-830-302	Sequence 302, App	332	29	64.4	996	11	US-11-079-463-6193	Sequence 6193, App
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262	30	66.7	146	11	US-11-176-830-305	Sequence 305, App	335	29	64.4	1124	11	US-11-096-5684-30062	Sequence 30062, A
263	30	66.7	146	11	US-11-176-830-306	Sequence 306, App	336	29	64.4	1186	15	US-11-045-004-1595	Sequence 1595, App
264	30	66.7	146	11	US-11-176-830-307	Sequence 307, App	337	29	64.4	15	9	US-10-530-061-1672	Sequence 1672, App
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267	30	66.7	146	11	US-11-176-830-310	Sequence 310, App	340	28	62.2	106	9	US-10-538-471-5	Sequence 5, Appl1
268	30	66.7	146	11	US-11-176-830-311	Sequence 311, App	341	28	62.2	151	11	US-11-045-004-1071	Sequence 1071, App
269	30	66.7	158	11	US-11-045-004-2251	Sequence 2251, App	342	28	62.2	152	11	US-11-188-298-8375	Sequence 8375, App
270	30	66.7	161	11	US-11-079-463-9838	Sequence 9838, App	343	28	62.2	174	11	US-11-096-5684-9387	Sequence 9387, App
271	30	66.7	166	8	US-10-511-937-2501	Sequence 2501, App	344	28	62.2	258	11	US-11-096-5684-10488	Sequence 10488, A
272	30	66.7	166	9	US-10-936-447-22	Sequence 22, Appl1	345	28	62.2	263	11	US-11-188-298-11551	Sequence 11551, A
273	30	66.7	166	10	US-11-183-218-20	Sequence 20, Appl1	346	28	62.2	268	11	US-11-188-298-6365	Sequence 6365, App
274	30	66.7	166	11	US-11-158-848-18	Sequence 18, Appl1	347	28	62.2	270	11	US-11-188-298-19475	Sequence 19475, A
275	30	66.7	166	11	US-11-158-848-18	Sequence 18, Appl1	348	28	62.2	274	11	US-11-188-298-10721	Sequence 10721, A
276	30	66.7	166	11	US-11-127-159-48	Sequence 4, Appl1	349	28	62.2	280	11	US-11-188-298-15899	Sequence 15899, A
277	30	66.7	166	11	US-11-147-492-4	Sequence 20, Appl1	350	28	62.2	287	11	US-11-087-099-294	Sequence 294, App
278	30	66.7	166	11	US-11-183-205-20	Sequence 2, Appl1	351	28	62.2	297	11	US-11-096-5684-3850	Sequence 3850, App
279	30	66.7	166	11	US-11-210-251-2	Sequence 6, Appl1	352	28	62.2	310	11	US-11-076-115-76	Sequence 76, Appl1
280	30	66.7	166	11	US-11-246-387-6	Sequence 25835, A	353	28	62.2	310	11	US-11-188-298-11569	Sequence 11569, A
281	30	66.7	173	11	US-11-096-5684-25835	Sequence 25834, A	354	28	62.2	310	11	US-11-188-298-1480	Sequence 1480, App
282	30	66.7	181	11	US-11-096-5684-25834	Sequence 25834, A	355	28	62.2	311	11	US-11-096-5684-3849	Sequence 3849, App
283	30	66.7	184	9	US-10-665-658-7	Sequence 7, Appl1	356	28	62.2	311	11	US-11-188-298-17086	Sequence 17086, A
284	30	66.7	184	9	US-10-665-658-8	Sequence 8, Appl1	357	28	62.2	313	11	US-11-188-298-14074	Sequence 14024, A
285	30	66.7	188	11	US-11-098-686-10230	Sequence 10230, A	358	28	62.2	314	11	US-11-188-298-14074	Sequence 14026, A
286	30	66.7	188	11	US-11-098-686-10230	Sequence 24, Appl1	359	28	62.2	315	11	US-11-188-298-15076	Sequence 15026, A
287	30	66.7	294	11	US-11-053-554A-71	Sequence 71, Appl1	360	28	62.2	315	11	US-11-188-298-8115	Sequence 8115, App
288	30	66.7	309	11	US-11-087-039-8647	Sequence 8647, App	361	28	62.2	315	11	US-11-096-5684-3848	Sequence 3848, App
289	30	66.7	309	11	US-11-087-039-8977	Sequence 8977, App	362	28	62.2	316	11	US-11-188-298-4209	Sequence 4209, App
290	30	66.7	309	11	US-11-045-004-1737	Sequence 1737, App	363	28	62.2	317	11	US-11-188-298-14885	Sequence 14885, A
291	30	66.7	335	11	US-11-045-004-1737	Sequence 1878, App	364	28	62.2	318	11	US-11-188-298-1831	Sequence 1831, App
292	30	66.7	403	11	US-11-079-463-7976	Sequence 7976, App	365	28	62.2	318	11	US-11-188-298-17261	Sequence 17261, App
293	30	66.7	425	11	US-11-079-463-7976	Sequence 1988, App	366	28	62.2	318	11	US-11-188-298-10407	Sequence 10407, A
294	30	66.7	477	11	US-11-188-298-4271	Sequence 4271, App	367	28	62.2	318	11	US-11-188-298-21594	Sequence 21594, A
295	30	66.7	488	9	US-10-523-362-44	Sequence 44, Appl1	368	28	62.2	318	11	US-11-188-298-6137	Sequence 6137, App
296	30	66.7	728	9	US-10-936-447-10	Sequence 10, Appl1	369	28	62.2	319	11	US-11-188-298-1107	Sequence 1107, App
297	30	66.7	1158	11	US-10-501-035-366	Sequence 366, Appl1	370	28	62.2	319	11	US-11-188-298-1267	Sequence 1267, App
298	30	66.7	1158	9	US-11-075-646-6	Sequence 6, Appl1	371	28	62.2	319	11	US-11-188-298-16531	Sequence 16531, A
299	30	66.7	1170	8	US-10-511-937-3087	Sequence 3087, App	372	28	62.2	319	11	US-11-188-298-16864	Sequence 16864, A
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301	30	66.7	1170	11	US-11-107-028-4	Sequence 4, Appl1	374	28	62.2	330	11	US-11-188-298-82	Sequence 82, App
302	30	66.7	1201	11	US-11-045-004-689	Sequence 689, App	375	28	62.2	335	11	US-11-152-892-12	Sequence 12, Appl1
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304	30	66.7	1294	11	US-11-096-5684-28043	Sequence 28043, A	377	28	62.2	341	11	US-11-188-298-18488	Sequence 18488, A
305	30	66.7	1327	11	US-11-096-5684-28042	Sequence 28042, A	378	28	62.2	342	11	US-11-188-298-18488	Sequence 18488, A
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307	29	64.4	9	9	US-10-530-061-613	Sequence 613, App	380	28	62.2	349	11	US-11-098-686-11337	Sequence 11337, A
308	29	64.4	159	9	US-10-957-887B-237	Sequence 237, App	381	28	62.2	352	11	US-11-188-298-12205	Sequence 12205, A
309	29	64.4	173	9	US-10-506-454-652	Sequence 29761, A	382	28	62.2	358	11	US-11-188-298-1938	Sequence 4938, App
310	29	64.4	250	11	US-11-079-463-5916	Sequence 5916, App	383	28	62.2	379	11	US-11-144-833-11	Sequence 11, Appl1
311	29	64.4	271	11	US-11-188-298-22199	Sequence 22199, A	384	28	62.2	380	11	US-11-096-5684-18516	Sequence 18516, A
312	29	64.4	295	11	US-11-045-004-1197	Sequence 1197, App	385	28	62.2	382	8	US-10-478-743B-2	Sequence 2, Appl1
313	29	64.4	313	11	US-11-188-298-17907	Sequence 17907, A	386	28	62.2	386	11	US-11-045-004-853	Sequence 853, App

387	28	62.2	389	11	US-11-188-298-1081	Sequence 1081, Ap	460	27	60.0	252	11	US-11-266-444-1366	Sequence 1366, Ap
388	28	62.2	402	11	US-11-188-298-14964	Sequence 14964, A	461	27	60.0	252	11	US-11-266-444-1656	Sequence 1656, Ap
389	28	62.2	404	10	US-11-301-554-1932	Sequence 1932, Ap	462	27	60.0	252	11	US-11-079-463-8735	Sequence 8735, Ap
390	28	62.2	420	11	US-11-096-568A-18515	Sequence 18515, A	463	27	60.0	253	11	US-11-054-515-1199	Sequence 1199, Ap
391	28	62.2	437	11	US-11-045-004-756	Sequence 756, App	464	27	60.0	253	11	US-11-266-444-1159	Sequence 1159, Ap
392	28	62.2	464	10	US-11-301-554-1934	Sequence 1934, Ap	465	27	60.0	254	11	US-11-054-515-1508	Sequence 1508, Ap
393	28	62.2	464	11	US-11-090-617-556	Sequence 556, App	466	27	60.0	254	11	US-11-054-515-1709	Sequence 1709, Ap
394	28	62.2	464	11	US-11-072-512-3563	Sequence 3563, Ap	467	27	60.0	254	11	US-11-266-444-1568	Sequence 1508, Ap
395	28	62.2	495	11	US-11-079-463-10323	Sequence 10323, A	468	27	60.0	254	11	US-11-266-444-1709	Sequence 1709, Ap
396	28	62.2	511	11	US-11-045-004-42	Sequence 42, App1	469	27	60.0	254	11	US-11-188-298-16803	Sequence 16803, A
397	28	62.2	542	11	US-11-214-199-44	Sequence 44, App1	470	27	60.0	255	11	US-11-054-515-1012	Sequence 1012, Ap
398	28	62.2	542	11	US-11-194-991-8	Sequence 8, App1	471	27	60.0	255	11	US-11-266-444-1101	Sequence 1012, Ap
399	28	62.2	569	11	US-11-031-206-116	Sequence 116, App	472	27	60.0	256	11	US-11-054-515-1633	Sequence 1633, Ap
400	28	62.2	596	9	US-10-514-581-17	Sequence 17, App1	473	27	60.0	256	11	US-11-266-444-1633	Sequence 1633, Ap
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402	28	62.2	596	9	US-10-514-581-19	Sequence 19, App1	475	27	60.0	268	11	US-11-045-004-2651	Sequence 2651, Ap
403	28	62.2	615	9	US-10-514-581-20	Sequence 20, App1	476	27	60.0	292	7	US-09-995-493-118	Sequence 118, App1
404	28	62.2	615	9	US-10-514-581-21	Sequence 21, App1	477	27	60.0	296	9	US-10-510-386-58	Sequence 58, App1
405	28	62.2	629	9	US-10-514-581-10	Sequence 10, App1	478	27	60.0	312	11	US-11-045-004-1969	Sequence 1969, Ap
406	28	62.2	690	11	US-11-188-298-20220	Sequence 20220, A	479	27	60.0	313	11	US-11-045-004-2072	Sequence 2072, Ap
407	28	62.2	814	9	US-10-878-556A-161	Sequence 161, App	480	27	60.0	315	11	US-11-045-004-555	Sequence 555, App
408	28	62.2	814	9	US-10-538-471-4	Sequence 4, App1	481	27	60.0	318	11	US-11-096-568A-9702	Sequence 9702, Ap
409	28	62.2	850	9	US-10-455-772-1074	Sequence 1074, Ap	482	27	60.0	320	11	US-11-096-568A-10835	Sequence 10835, A
410	28	62.2	911	9	US-10-455-772-1078	Sequence 1078, Ap	483	27	60.0	329	11	US-11-045-004-1388	Sequence 1388, Ap
411	28	62.2	915	9	US-10-455-772-1076	Sequence 1076, Ap	484	27	60.0	331	11	US-11-096-568A-9701	Sequence 9701, Ap
412	28	62.2	921	9	US-10-455-772-1080	Sequence 1080, Ap	485	27	60.0	331	11	US-11-045-004-491	Sequence 491, App
413	28	62.2	969	11	US-11-086-568A-30346	Sequence 30346, A	486	27	60.0	333	11	US-11-127-877-57	Sequence 57, App1
414	28	62.2	979	11	US-11-096-568A-30345	Sequence 30345, A	487	27	60.0	338	11	US-11-079-463-9240	Sequence 9240, App
415	28	62.2	1055	11	US-11-096-568A-30344	Sequence 30344, A	488	27	60.0	339	11	US-11-096-568A-9700	Sequence 9700, App
416	28	62.2	1075	8	US-10-322-836-48	Sequence 48, App1	489	27	60.0	339	11	US-11-188-298-16600	Sequence 16600, A
417	28	62.2	1091	11	US-11-045-004-963	Sequence 963, App	490	27	60.0	340	11	US-11-087-099-8973	Sequence 8973, App
418	28	62.2	1324	11	US-11-089-508-12	Sequence 12, App1	491	27	60.0	341	11	US-11-087-099-1370	Sequence 1370, App
419	28	62.2	1571	11	US-11-134-587B-12	Sequence 12, App1	492	27	60.0	354	11	US-11-096-568A-11536	Sequence 11536, A
420	28	62.2	1571	11	US-11-134-587B-13	Sequence 13, App1	493	27	60.0	365	11	US-11-087-099-11730	Sequence 11730, A
421	28	62.2	1588	11	US-11-052-554A-280	Sequence 280, App	494	27	60.0	376	11	US-11-096-568A-11535	Sequence 11535, A
422	28	62.2	1910	11	US-11-134-587B-2	Sequence 2, App1	495	27	60.0	381	11	US-11-072-512-2948	Sequence 2948, Ap
423	28	62.2	1910	11	US-11-134-587B-3	Sequence 3, App1	496	27	60.0	384	11	US-11-096-568A-30570	Sequence 30570, A
424	27	60.0	43	9	US-10-957-887B-223	Sequence 223, App	497	27	60.0	390	11	US-11-087-099-12286	Sequence 12286, A
425	27	60.0	87	11	US-11-096-568A-11136	Sequence 11136, A	498	27	60.0	390	11	US-11-096-568A-30569	Sequence 30569, A
426	27	60.0	93	11	US-11-264-096-1486	Sequence 1486, Ap	499	27	60.0	399	11	US-11-087-099-7685	Sequence 7685, Ap
427	27	60.0	105	11	US-11-096-568A-11135	Sequence 11135, A	500	27	60.0	402	11	US-11-098-686-10827	Sequence 10827, A
428	27	60.0	119	11	US-11-079-463-7957	Sequence 7957, App	501	27	60.0	405	11	US-11-096-568A-30568	Sequence 30568, A
429	27	60.0	136	9	US-10-510-903-40	Sequence 40, App1	502	27	60.0	411	11	US-11-188-298-20128	Sequence 20128, A
430	27	60.0	158	11	US-11-096-568A-4180	Sequence 4180, Ap	503	27	60.0	412	11	US-11-188-298-1014	Sequence 1014, Ap
431	27	60.0	158	11	US-11-096-568A-11134	Sequence 11134, A	504	27	60.0	428	11	US-11-188-298-20267	Sequence 20267, A
432	27	60.0	158	11	US-11-045-004-2712	Sequence 2712, Ap	505	27	60.0	429	11	US-11-188-298-1529	Sequence 1529, Ap
433	27	60.0	165	11	US-11-096-568A-4179	Sequence 4179, Ap	506	27	60.0	434	11	US-11-188-298-6917	Sequence 6917, Ap
434	27	60.0	177	9	US-10-506-454-124	Sequence 124, App	507	27	60.0	444	11	US-11-079-463-6104	Sequence 6104, Ap
435	27	60.0	192	8	US-10-505-928-578	Sequence 578, App	508	27	60.0	456	11	US-11-150-845-32	Sequence 32, App1
436	27	60.0	192	11	US-11-072-175-193	Sequence 193, App	509	27	60.0	456	11	US-11-150-848-32	Sequence 32, App1
437	27	60.0	192	11	US-11-096-568A-4178	Sequence 4178, Ap	510	27	60.0	442	11	US-11-074-176-282	Sequence 282, App
438	27	60.0	211	11	US-11-096-568A-5063	Sequence 5063, Ap	511	27	60.0	447	9	US-10-967-527A-14	Sequence 14, App1
439	27	60.0	239	9	US-10-485-517-192	Sequence 192, App	512	27	60.0	447	11	US-11-102-621-131	Sequence 130, App
440	27	60.0	239	9	US-10-485-517-195	Sequence 195, App	513	27	60.0	447	11	US-11-102-621-131	Sequence 131, App
441	27	60.0	239	9	US-10-485-517-423	Sequence 423, App	514	27	60.0	447	11	US-11-102-621-132	Sequence 132, App
442	27	60.0	242	11	US-11-054-515-1580	Sequence 1580, Ap	515	27	60.0	447	11	US-11-102-621-133	Sequence 133, App
443	27	60.0	242	11	US-11-266-444-1580	Sequence 1580, Ap	516	27	60.0	447	11	US-11-102-621-134	Sequence 134, App
444	27	60.0	246	11	US-11-054-515-1655	Sequence 1655, Ap	517	27	60.0	470	11	US-11-121-438-35	Sequence 35, App1
445	27	60.0	246	11	US-11-266-444-1655	Sequence 1655, Ap	518	27	60.0	490	11	US-11-121-438-35	Sequence 35, App1
446	27	60.0	248	11	US-11-054-515-1599	Sequence 1599, Ap	519	27	60.0	494	9	US-10-763-712A-71	Sequence 71, App1
447	27	60.0	248	11	US-11-054-515-1617	Sequence 1617, Ap	520	27	60.0	494	9	US-10-763-712A-111	Sequence 111, App
448	27	60.0	248	11	US-11-266-444-1599	Sequence 1599, Ap	521	27	60.0	503	9	US-10-821-234-1527	Sequence 1527, Ap
449	27	60.0	248	11	US-11-266-444-1617	Sequence 1617, Ap	522	27	60.0	505	11	US-11-079-463-7931	Sequence 7291, Ap
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451	27	60.0	249	11	US-11-054-515-1442	Sequence 1442, Ap	524	27	60.0	521	11	US-11-096-568A-34050	Sequence 34050, A
452	27	60.0	249	11	US-11-266-444-1419	Sequence 1419, Ap	525	27	60.0	533	11	US-11-188-298-17881	Sequence 17881, A
453	27	60.0	249	11	US-11-266-444-1442	Sequence 1442, Ap	526	27	60.0	533	11	US-11-188-298-19166	Sequence 19166, A
454	27	60.0	250	11	US-11-054-515-1460	Sequence 1460, Ap	527	27	60.0	544	11	US-11-045-004-335	Sequence 335, App
455	27	60.0	250	11	US-11-266-444-1460	Sequence 1460, Ap	528	27	60.0	547	11	US-11-096-568A-34049	Sequence 34049, A
456	27	60.0	251	11	US-11-054-515-1671	Sequence 1671, Ap	529	27	60.0	553	11	US-11-188-298-5727	Sequence 5727, Ap
457	27	60.0	251	11	US-11-266-444-1671	Sequence 1671, Ap	530	27	60.0	559	9	US-10-506-454-999	Sequence 999, App
458	27	60.0	252	11	US-11-054-515-1366	Sequence 1366, Ap	531	27	60.0	584	11	US-11-188-298-1862	Sequence 1862, Ap
459	27	60.0	252	11	US-11-054-515-1656	Sequence 1656, Ap	532	27	60.0	668	11	US-11-072-512-2308	Sequence 2308, Ap

533	27	60.0	685	11	US-11-072-512-2916	Sequence 2916, Ap	606	25	57.8	252	11	US-11-266-444-898	Sequence 898, App
534	27	60.0	688	11	US-11-045-004-1816	Sequence 1816, Ap	607	26	57.8	252	11	US-11-266-444-1169	Sequence 1169, Ap
535	27	60.0	752	11	US-11-072-512-2991	Sequence 2991, Ap	608	26	57.8	252	11	US-11-266-444-1583	Sequence 1583, Ap
536	27	60.0	763	11	US-11-188-298-17209	Sequence 17209, A	609	26	57.8	253	11	US-11-054-515-902	Sequence 902, App
537	27	60.0	766	11	US-11-188-298-9041	Sequence 9041, Ap	610	26	57.8	253	11	US-11-054-515-909	Sequence 909, App
538	27	60.0	788	8	US-10-485-346-2	Sequence 2, Appl1	611	26	57.8	253	11	US-11-054-515-1125	Sequence 1125, Ap
539	27	60.0	793	9	US-10-510-903-4	Sequence 4, Appl1	612	26	57.8	253	11	US-11-054-515-1167	Sequence 1167, Ap
540	27	60.0	814	11	US-11-079-463-9513	Sequence 9513, Ap	613	26	57.8	253	11	US-11-054-515-1235	Sequence 1235, Ap
541	27	60.0	849	11	US-11-087-099-1756	Sequence 1756, Ap	614	26	57.8	253	11	US-11-266-444-902	Sequence 902, App
542	27	60.0	877	11	US-11-188-298-1850	Sequence 18520, A	615	26	57.8	253	11	US-11-266-444-909	Sequence 909, App
543	27	60.0	878	11	US-11-188-298-6160	Sequence 6160, Ap	616	26	57.8	253	11	US-11-266-444-1135	Sequence 1135, Ap
544	27	60.0	939	11	US-11-188-298-10003	Sequence 10003, A	617	26	57.8	253	11	US-11-266-444-1175	Sequence 1175, Ap
545	27	60.0	1003	11	US-11-188-298-8292	Sequence 8292, Ap	618	26	57.8	253	11	US-11-266-444-1375	Sequence 1375, Ap
546	27	60.0	1021	11	US-11-079-463-7535	Sequence 7535, Ap	619	26	57.8	253	11	US-11-266-444-1375	Sequence 1375, Ap
547	27	60.0	1034	11	US-11-072-512-2343	Sequence 2343, Ap	620	26	57.8	254	11	US-11-054-515-1045	Sequence 1045, Ap
548	27	60.0	1094	11	US-11-098-686-10160	Sequence 10160, A	621	26	57.8	254	11	US-11-266-444-1045	Sequence 1045, Ap
549	27	60.0	1147	11	US-11-188-298-4701	Sequence 4701, Ap	622	26	57.8	260	11	US-11-079-463-7999	Sequence 7999, Ap
550	27	60.0	1184	9	US-10-131-826A-412	Sequence 412, App	623	26	57.8	261	11	US-11-188-298-4179	Sequence 4179, Ap
551	27	60.0	1184	9	US-10-973-115B-412	Sequence 412, App	624	26	57.8	263	11	US-11-096-568A-12639	Sequence 12639, A
552	27	60.0	1184	9	US-10-137-873A-412	Sequence 412, App	625	26	57.8	263	11	US-11-096-568A-12639	Sequence 12639, A
553	27	60.0	1184	9	US-10-152-370-412	Sequence 412, App	626	26	57.8	263	11	US-11-096-568A-12639	Sequence 12639, A
554	27	60.0	1184	11	US-11-290-153-412	Sequence 412, App	627	26	57.8	270	11	US-11-172-740-1122	Sequence 1122, App
555	27	60.0	1209	11	US-11-188-298-19847	Sequence 19847, A	628	26	57.8	274	11	US-11-188-298-19599	Sequence 19599, A
556	27	60.0	1294	11	US-11-188-298-9622	Sequence 9622, Ap	629	26	57.8	277	9	US-10-515-417-13	Sequence 13, Appl1
557	27	60.0	1294	11	US-11-188-298-9622	Sequence 9622, Ap	630	26	57.8	278	9	US-10-515-417-13	Sequence 13, Appl1
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559	27	60.0	1495	11	US-11-096-568A-31249	Sequence 31249, A	632	26	57.8	281	11	US-10-793-626-3252	Sequence 3252, Ap
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561	27	60.0	1992	11	US-11-096-568A-31247	Sequence 31247, A	634	26	57.8	290	9	US-10-793-626-3252	Sequence 3252, Ap
562	27	60.0	2004	9	US-10-469-469-250	Sequence 250, App	635	26	57.8	299	11	US-11-096-568A-12638	Sequence 12638, A
563	27	60.0	4384	9	US-10-821-234-1120	Sequence 1120, Ap	636	26	57.8	299	11	US-11-096-568A-25645	Sequence 25645, A
564	27	60.0	4384	9	US-10-821-234-1120	Sequence 1120, Ap	637	26	57.8	304	11	US-11-188-298-8223	Sequence 8223, App
565	26	57.8	22	11	US-11-178-160-3	Sequence 3, Appl1	638	26	57.8	306	11	US-11-156-084-333	Sequence 333, App
566	26	57.8	22	11	US-11-116-203-8	Sequence 8, Appl1	639	26	57.8	309	11	US-11-096-568A-20668	Sequence 20668, A
567	26	57.8	43	9	US-10-957-887B-234	Sequence 234, App	640	26	57.8	310	11	US-11-082-389-306	Sequence 306, App
568	26	57.8	65	9	US-10-467-657-3514	Sequence 3514, App	641	26	57.8	311	11	US-11-079-463-6983	Sequence 6983, Ap
569	26	57.8	112	11	US-11-096-568A-3428	Sequence 3428, Ap	642	26	57.8	314	11	US-11-188-298-13742	Sequence 13742, A
570	26	57.8	113	9	US-10-793-626-3582	Sequence 3582, App	643	26	57.8	315	11	US-11-144-847-458	Sequence 458, App
571	26	57.8	123	11	US-11-144-947-596	Sequence 596, App	644	26	57.8	319	11	US-11-188-298-14134	Sequence 14134, A
572	26	57.8	126	11	US-11-264-096-935	Sequence 935, App	645	26	57.8	320	11	US-11-188-298-19811	Sequence 19811, A
573	26	57.8	141	11	US-11-072-512-3225	Sequence 3225, Ap	646	26	57.8	320	11	US-11-188-298-16450	Sequence 16450, A
574	26	57.8	145	11	US-11-082-389-310	Sequence 310, App	647	26	57.8	321	11	US-11-188-298-1349	Sequence 1349, App
575	26	57.8	150	11	US-11-096-568A-24935	Sequence 24935, A	648	26	57.8	326	11	US-11-096-568A-12637	Sequence 12637, A
576	26	57.8	155	11	US-11-096-568A-16446	Sequence 16436, A	649	26	57.8	326	11	US-11-096-568A-12637	Sequence 12637, A
577	26	57.8	157	11	US-11-264-096-933	Sequence 933, App	650	26	57.8	326	11	US-11-096-568A-12637	Sequence 12637, A
578	26	57.8	165	11	US-11-096-568A-3427	Sequence 3427, Ap	651	26	57.8	332	11	US-11-188-298-7993	Sequence 7993, App
579	26	57.8	177	11	US-11-072-512-3332	Sequence 3332, Ap	652	26	57.8	332	11	US-11-188-298-13069	Sequence 13069, Ap
580	26	57.8	180	11	US-11-052-554A-205	Sequence 205, App	653	26	57.8	333	11	US-11-188-298-12053	Sequence 12053, A
581	26	57.8	185	11	US-11-096-568A-3426	Sequence 3426, App	654	26	57.8	334	11	US-11-188-298-12038	Sequence 12038, A
582	26	57.8	186	9	US-11-096-568A-16435	Sequence 16435, A	655	26	57.8	334	11	US-11-096-568A-25644	Sequence 25644, A
583	26	57.8	188	9	US-10-873-528-105	Sequence 105, App	656	26	57.8	336	11	US-11-096-568A-6913	Sequence 6913, App
584	26	57.8	189	9	US-10-936-888-1	Sequence 1, Appl1	657	26	57.8	337	11	US-11-096-568A-6913	Sequence 6913, App
585	26	57.8	191	11	US-11-264-728-18	Sequence 18, Appl1	658	26	57.8	337	11	US-11-079-463-8298	Sequence 8298, App
586	26	57.8	199	11	US-11-045-004-126	Sequence 1026, Ap	659	26	57.8	340	11	US-11-188-298-16763	Sequence 16763, A
587	26	57.8	202	11	US-11-087-099-384	Sequence 384, App	660	26	57.8	349	11	US-11-188-298-8019	Sequence 8019, App
588	26	57.8	210	11	US-11-045-004-1155	Sequence 1155, Ap	661	26	57.8	350	11	US-11-188-298-12038	Sequence 12038, A
589	26	57.8	212	11	US-11-096-568A-10131	Sequence 10131, A	662	26	57.8	351	11	US-11-096-568A-31706	Sequence 31706, A
590	26	57.8	213	11	US-11-045-004-1252	Sequence 1252, App	663	26	57.8	351	11	US-11-188-298-1826	Sequence 1826, App
591	26	57.8	218	11	US-11-096-568A-10130	Sequence 10130, A	664	26	57.8	351	11	US-11-188-298-9125	Sequence 9125, App
592	26	57.8	218	11	US-11-188-298-9096	Sequence 9096, Ap	665	26	57.8	352	11	US-11-188-298-14472	Sequence 14472, A
593	26	57.8	225	9	US-10-784-004-431	Sequence 431, App	666	26	57.8	352	11	US-11-188-298-21036	Sequence 21036, A
594	26	57.8	225	9	US-10-784-004-949	Sequence 949, App	667	26	57.8	354	11	US-11-188-298-1036	Sequence 1036, A
595	26	57.8	244	11	US-11-096-568A-10129	Sequence 10129, A	668	26	57.8	355	11	US-11-188-298-5799	Sequence 5799, App
596	26	57.8	249	11	US-11-054-515-1138	Sequence 1138, Ap	669	26	57.8	355	11	US-11-188-298-10281	Sequence 10281, App
597	26	57.8	250	11	US-11-266-444-1138	Sequence 1138, Ap	670	26	57.8	356	11	US-11-188-298-21375	Sequence 21375, A
598	26	57.8	250	11	US-11-054-515-889	Sequence 889, App	671	26	57.8	356	11	US-11-087-099-11297	Sequence 11297, A
599	26	57.8	251	11	US-11-266-444-829	Sequence 829, App	672	26	57.8	356	11	US-11-188-298-13705	Sequence 13705, A
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601	26	57.8	251	11	US-11-266-444-1329	Sequence 1329, Ap	674	26	57.8	360	11	US-11-188-298-5253	Sequence 5253, App
602	26	57.8	251	11	US-11-266-444-1374	Sequence 1374, Ap	675	26	57.8	360	11	US-11-188-298-19978	Sequence 19978, A
603	26	57.8	252	11	US-11-054-515-898	Sequence 898, App	676	26	57.8	360	11	US-11-188-298-20843	Sequence 20843, A
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605	26	57.8	252	11	US-11-054-515-1583	Sequence 1583, Ap	678	26	57.8	361	11	US-11-096-568A-23949	Sequence 23949, A



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680	26	57.8	364	11	US-11-096-568A-6912	Sequence 6912, Ap	753	26	57.8	731	11	US-11-045-004-2406	Sequence 2406, Ap
681	26	57.8	364	11	US-11-079-463-9680	Sequence 9680, Ap	754	26	57.8	767	9	US-10-784-004-740	Sequence 740, Ap
682	26	57.8	369	11	US-11-096-568A-2066	Sequence 2066, A	755	26	57.8	767	9	US-10-784-004-1092	Sequence 1092, Ap
683	26	57.8	373	8	US-10-511-937-2447	Sequence 2447, Ap	756	26	57.8	798	9	US-10-784-004-422	Sequence 422, Ap
684	26	57.8	375	11	US-11-188-298-3711	Sequence 3711, Ap	757	26	57.8	798	9	US-10-784-004-946	Sequence 946, Ap
685	26	57.8	389	11	US-11-096-568A-31704	Sequence 31704, A	758	26	57.8	821	9	US-10-784-004-683	Sequence 683, Ap
686	26	57.8	400	11	US-11-087-099-11528	Sequence 11528, A	759	26	57.8	821	9	US-10-784-004-692	Sequence 692, Ap
687	26	57.8	401	11	US-11-096-568A-23701	Sequence 23701, A	760	26	57.8	826	9	US-10-821-234-1048	Sequence 1048, Ap
688	26	57.8	406	11	US-11-096-568A-2503	Sequence 2503, Ap	761	26	57.8	834	9	US-10-909-769-24	Sequence 24, Ap
689	26	57.8	409	9	US-10-821-234-892	Sequence 892, Ap	762	26	57.8	842	9	US-10-909-769-22	Sequence 22, Ap
690	26	57.8	413	11	US-11-096-568A-23948	Sequence 23948, A	763	26	57.8	858	11	US-11-054-281-135	Sequence 135, Ap
691	26	57.8	419	9	US-10-506-454-973	Sequence 973, Ap	764	26	57.8	862	8	US-10-511-937-2974	Sequence 2974, Ap
692	26	57.8	420	11	US-11-072-512-2007	Sequence 2007, Ap	765	26	57.8	862	11	US-11-128-420-11	Sequence 11, Ap
693	26	57.8	421	11	US-11-096-568A-23047	Sequence 23947, A	766	26	57.8	862	11	US-11-007-428-2	Sequence 2, Ap
694	26	57.8	423	11	US-11-098-586-10263	Sequence 10263, A	767	26	57.8	862	11	US-11-183-294-16	Sequence 16, Ap
695	26	57.8	426	11	US-11-240-769-98	Sequence 98, Ap	768	26	57.8	862	11	US-11-235-037-9	Sequence 9, Ap
696	26	57.8	427	11	US-11-096-568A-2502	Sequence 2502, Ap	769	26	57.8	867	11	US-11-054-281-134	Sequence 134, Ap
697	26	57.8	433	11	US-11-096-568A-23700	Sequence 23700, A	770	26	57.8	871	11	US-11-087-099-6053	Sequence 6053, Ap
698	26	57.8	433	11	US-11-188-298-3799	Sequence 3799, Ap	771	26	57.8	876	11	US-11-077-550-128	Sequence 128, Ap
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## ALIGNMENTS

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; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match          100.0%; Score 45; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.073;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 DTLEKLTNT 9
        |||||
Db      88 DTLEKLTNT 96
```

```
RESULT 2
US-10-530-061-45
; Sequence 45, Application US/10530061
; Publication No. US20060079453A1
```

```
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-45

Query Match          86.7%; Score 39; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 3
US-10-530-061-50
; Sequence 50, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 50
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-50

Query Match          86.7%; Score 39; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 TLEKLTNT 9
        |||||
Db      1 TLEKLTNT 8
```

```
RESULT 4
US-10-530-061-111
; Sequence 111, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
```

```
APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 111
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-111
```

```
Query Match      86.7%; Score 39; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 DTLEKLTNT 9
      |||||
Db      1 DTLEKLTNT 8
```

```
RESULT 5
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaccia, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20
```

```
Query Match      86.7%; Score 39; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 1.2;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
      :|||:|
Db      88 ETLEKLTNT 96
```

```
RESULT 6
US-10-530-061-51
; Sequence 51, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
```

```
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-51
```

```
Query Match      82.2%; Score 37; DB 9; Length 11;
Best Local Similarity 87.5%; Pred. No. 0.13;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 DTLEKLTNT 9
      |||||
Db      1 DTLEKLTNT 8
```

```
RESULT 7
US-10-523-362-38
; Sequence 38, Application US/10523362
; Publication No. US20060064784A1
; GENERAL INFORMATION:
; APPLICANT: Chardonnens, Agnes
; APPLICANT: Puzio, Piotr
; TITLE OF INVENTION: Nucleic Acid Sequences Encoding Proteins Associated with Abiotic
; FILE REFERENCE: 532622010300
; CURRENT APPLICATION NUMBER: US/10/523,362
; CURRENT FILING DATE: 2005-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
; LENGTH: 173
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-523-362-38
```

```
Query Match      80.0%; Score 36; DB 9; Length 173;
Best Local Similarity 77.8%; Pred. No. 5.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 DTLEKLTNT 9
      |||||
Db      73 DTLEKLTNTS 81
```

```
RESULT 8
US-11-155-288-11
; Sequence 11, Application US/11155288
; Publication No. US2006008468A1
; GENERAL INFORMATION:
; APPLICANT: Chiang, Chih-Sheng
; APPLICANT: Simard, John J.L.
; TITLE OF INVENTION: COMBINATIONS OF TUMOR-ASSOCIATED
; FILE REFERENCE: MANNK.050A
; CURRENT APPLICATION NUMBER: US/11/155,288
; CURRENT FILING DATE: 2005-06-17
; PRIOR APPLICATION NUMBER: 60/580,969
; PRIOR FILING DATE: 2004-06-17
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
```

US-11-155-288-11

Query Match 77.8%; Score 35; DB 11; Length 115;  
Best Local Similarity 66.7%; Pred. No. 5.1;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
:|||||:  
Db 100 ETLEKLTNS 108

RESULT 9

US-11-233-510-6  
; Sequence 6, Application US/11233510  
; Publication No. US2006063190A1  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Timothy J.  
; APPLICANT: Whitehead, Clark M.  
; APPLICANT: Malinowski, Douglas P.  
; APPLICANT: Marcelpoll, Raphael  
; APPLICANT: Morel, Didier  
; TITLE OF INVENTION: Methods and Compositions for Evaluating  
; TITLE OF INVENTION: Breast Cancer Prognosis  
; FILE REFERENCE: 46143/296738  
; CURRENT APPLICATION NUMBER: US/11/233,510  
; CURRENT FILING DATE: 2005-09-22  
; PRIOR APPLICATION NUMBER: 60/612,073  
; PRIOR FILING DATE: 2004-09-22  
; PRIOR APPLICATION NUMBER: 60/611,965  
; PRIOR FILING DATE: 2004-09-22  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 115  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-233-510-6

Query Match 77.8%; Score 35; DB 11; Length 115;  
Best Local Similarity 66.7%; Pred. No. 5.1;  
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DTLEKLTNT 9  
:|||||:  
Db 100 ETLEKLTNS 108

RESULT 10

US-10-873-528-165  
; Sequence 165, Application US/10873528  
; Publication No. US2005027681A1  
; GENERAL INFORMATION:  
; APPLICANT: Microbial Technics Limited  
; APPLICANT: Gilbert, Christophe FG  
; APPLICANT: Hansbro, Philip M  
; TITLE OF INVENTION: Proteins  
; FILE REFERENCE: PWC/21129NO  
; CURRENT APPLICATION NUMBER: US/10/873,528  
; CURRENT FILING DATE: 2004-06-23  
; PRIOR APPLICATION NUMBER: US/09/769,787  
; PRIOR FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: GB 9816337.1  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: US 60/125164  
; PRIOR FILING DATE: 1999-03-19  
; NUMBER OF SEQ ID NOS: 388  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 165  
; LENGTH: 266  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-10-873-528-165

Query Match 77.8%; Score 35; DB 9; Length 266;  
Best Local Similarity 87.5%; Pred. No. 14;  
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
:|||||:  
Db 245 TLEKLTNT 252

RESULT 11

US-10-530-061-614  
; Sequence 614, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.03US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn Version 3.3  
; SEQ ID NO 614  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-614

Query Match 75.6%; Score 34; DB 9; Length 9;  
Best Local Similarity 100.0%; Pred. No. 1.9e+05;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TLEKLTNT 8  
:|||||:  
Db 2 TLEKLTNT 8

RESULT 12

US-10-530-061-542  
; Sequence 542, Application US/10530061  
; Publication No. US20060079453A1  
; GENERAL INFORMATION:  
; APPLICANT: SIDNEY, JOHN  
; APPLICANT: SOUTHWOOD, SCOTT  
; APPLICANT: SETTE, ALESSANDRO  
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
; FILE REFERENCE: 2060.03US02/EKS/M-M  
; CURRENT APPLICATION NUMBER: US/10/530,061  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31308  
; PRIOR FILING DATE: 2003-10-03  
; PRIOR APPLICATION NUMBER: 60/416,207  
; PRIOR FILING DATE: 2002-10-03  
; PRIOR APPLICATION NUMBER: 60/417,269  
; PRIOR FILING DATE: 2002-10-08  
; NUMBER OF SEQ ID NOS: 2503  
; SOFTWARE: PatentIn Version 3.3  
; SEQ ID NO 542  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Human papillomavirus  
US-10-530-061-542

Query Match 75.6%; Score 34; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.45;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTN 8  
| | | | |  
Db 3 TLEKLTN 9

RESULT 13  
US-10-530-253-16  
; Sequence 16, Application US/10530253  
; Publication No. US20060014926A1  
; GENERAL INFORMATION:  
; APPLICANT: Cassecci, Maria C.  
; APPLICANT: Smith, Larry  
; APPLICANT: Jeffrey K. Pullen  
; APPLICANT: Susan P. McElhinney  
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS  
; FILE REFERENCE: 00630/100M137-US2  
; CURRENT APPLICATION NUMBER: US/10/530,253  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US2003/031726  
; PRIOR FILING DATE: 2003-10-02  
; PRIOR APPLICATION NUMBER: US 60/415,929  
; PRIOR FILING DATE: 2002-10-03  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 16  
; LENGTH: 149  
; TYPE: PRT  
; ORGANISM: Human papillomavirus type 31  
US-10-530-253-16

Query Match 75.6%; Score 34; DB 9; Length 149;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TLEKLTN 8  
| | | | |  
Db 87 TLEKLTN 93

RESULT 14  
US-10-498-026-81  
; Sequence 81, Application US/10498026  
; Publication No. US20060024334A1  
; GENERAL INFORMATION:  
; APPLICANT: CIRCASSIA LIMITED  
; TITLE OF INVENTION: IMMUNOTHERAPEUTIC METHODS AND SYSTEMS  
; FILE REFERENCE: N.87430 WO GCW  
; CURRENT APPLICATION NUMBER: US/10/498,026  
; CURRENT FILING DATE: 2004-06-04  
; NUMBER OF SEQ ID NOS: 118  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 81  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula pendula  
US-10-498-026-81

Query Match 75.6%; Score 34; DB 9; Length 160;  
Best Local Similarity 75.0%; Pred. No. 12;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTN 8  
| | | | |  
Db 94 DTLEKLTN 101

RESULT 15  
US-11-102-883-18  
; Sequence 18, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lamping, Norbert

APPLICANT: Cramer, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and  
; TITLE OF INVENTION: Uses Thereof  
; FILE REFERENCE: 031002349A  
; CURRENT APPLICATION NUMBER: US/11/102,883  
; CURRENT FILING DATE: 2005-04-11  
; PRIOR APPLICATION NUMBER: EP02022774.0  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190  
; PRIOR FILING DATE: 2003-10-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 18  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
US-11-102-883-18

Query Match 75.6%; Score 34; DB 11; Length 172;  
Best Local Similarity 75.0%; Pred. No. 13;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTN 8  
| | | | |  
Db 106 DTLEKLTN 113

RESULT 16  
US-11-102-883-26  
; Sequence 26, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lamping, Norbert  
; APPLICANT: Cramer, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and  
; TITLE OF INVENTION: Uses Thereof  
; FILE REFERENCE: 031002349A  
; CURRENT APPLICATION NUMBER: US/11/102,883  
; CURRENT FILING DATE: 2005-04-11  
; PRIOR APPLICATION NUMBER: EP02022774.0  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190  
; PRIOR FILING DATE: 2003-10-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 26  
; LENGTH: 289  
; TYPE: PRT  
; ORGANISM: cat-ii-bet v 1  
US-11-102-883-26

Query Match 75.6%; Score 34; DB 11; Length 289;  
Best Local Similarity 75.0%; Pred. No. 24;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DTLEKLTN 8  
| | | | |  
Db 223 DTLEKLTN 230

RESULT 17  
US-11-102-883-6  
; Sequence 6, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lamping, Norbert  
; APPLICANT: Cramer, Reto

```

; APPLICANT: Fluckiger, Sabina
; APPLICANT: Daigle, Isabelle
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 03100234pa
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus + Homo sapiens + Betula verrucosa
US-11-102-883-6
```

```

Query Match          75.6%; Score 34; DB 11; Length 300;
Best Local Similarity 75.0%; Pred. No. 25;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```

Qy      1 DTLEKLTN 8
        |||:|:|
Db      234 DTLEKISN 241
```

```

RESULT 18
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19
```

```

Query Match          71.1%; Score 32; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 30;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```

Qy      2 TLEKLTNT 9
        |||:|:|
Db      89 TLENTTNT 96
```

```

RESULT 19
US-10-915-002-213
; Sequence 213, Application US/10915002
; Publication No. US20060078950A1
; GENERAL INFORMATION:
; APPLICANT: Proguiske-Fox, Ann
; APPLICANT: Hallman, Jeffrey D.
; APPLICANT: Handfield, Martin
; TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOTI
; TITLE OF INVENTION: USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, A
```

```

; TITLE OF INVENTION: PERIODONTAL DISEASES
; FILE REFERENCE: 02-042
; CURRENT APPLICATION NUMBER: US/10/915,002
; CURRENT FILING DATE: 2004-08-10
; NUMBER OF SEQ ID NOS: 354
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 213
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Porphyromonas gingivalis
US-10-915-002-213
```

```

Query Match          71.1%; Score 32; DB 9; Length 326;
Best Local Similarity 66.7%; Pred. No. 70;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```

Qy      1 DTLEKLTNT 9
        |||:|:|
Db      131 DATEKLTQT 139
```

```

RESULT 20
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26
```

```

Query Match          68.9%; Score 31; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 47;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```

Qy      2 TLEKLTNT 9
        |||:|:|
Db      89 TLENTTNT 96
```

```

RESULT 21
US-11-054-515-1018
; Sequence 1018, Application US/11054515
; Publication No. US2005025532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PFS23P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
```

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; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1018
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1018
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
Best Local Similarity 75.0%; Pred. No. 80;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 TLEKLTNT 9
        | : |||||
Db       70 TADKLTNT 77
```

```

RESULT 22
US-11-054-515-1206
; Sequence 1206, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1206
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1206
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
Best Local Similarity 75.0%; Pred. No. 80;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 TLEKLTNT 9
        | : |||||
```

```
Db       70 TADKLTNT 77
```

```

RESULT 23
US-11-266-444-1018
; Sequence 1018, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulator
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1018
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1018
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
Best Local Similarity 75.0%; Pred. No. 80;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2 TLEKLTNT 9
        | : |||||
Db       70 TADKLTNT 77
```

```

RESULT 24
US-11-266-444-1206
; Sequence 1206, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulator
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1206
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1206
```

```
Query Match          68.9%; Score 31; DB 11; Length 247;
```

Best Local Similarity 75.0%; Pred. No. 80;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
DB 70 TADKLTNT 77

## RESULT 25

US-11-054-515-1009  
; Sequence 1009, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:

APPLICANT: Ruben et al.

TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys

FILE REFERENCE: PF523P3

CURRENT APPLICATION NUMBER: US/11/054,515

PRIOR FILING DATE: 2005-02-10

PRIOR APPLICATION NUMBER: 60/543,296

PRIOR FILING DATE: 2004-02-11

PRIOR APPLICATION NUMBER: 60/580,347

PRIOR FILING DATE: 2004-06-18

PRIOR APPLICATION NUMBER: 10/293,418

PRIOR FILING DATE: 2002-11-14

PRIOR APPLICATION NUMBER: 60/331,469

PRIOR FILING DATE: 2001-11-16

PRIOR APPLICATION NUMBER: 60/340,817

PRIOR FILING DATE: 2001-12-19

PRIOR APPLICATION NUMBER: 09/880,748

PRIOR FILING DATE: 2001-06-15

PRIOR APPLICATION NUMBER: 60/293,499

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/277,379

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/276,248

PRIOR FILING DATE: 2001-03-16

PRIOR APPLICATION NUMBER: 60/240,816

PRIOR FILING DATE: 2000-10-17

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 3247

SEQ ID NO 1009

LENGTH: 249

TYPE: PRT

ORGANISM: Homo sapiens

US-11-054-515-1009

Query Match 68.9%; Score 31; DB 11; Length 249;

Best Local Similarity 75.0%; Pred. No. 81;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
DB 70 TADKLTNT 77

## RESULT 26

US-11-054-515-1019  
; Sequence 1019, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:

APPLICANT: Ruben et al.

TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys

FILE REFERENCE: PF523P3

CURRENT APPLICATION NUMBER: US/11/054,515

PRIOR FILING DATE: 2005-02-10

PRIOR APPLICATION NUMBER: 60/543,296

PRIOR FILING DATE: 2004-02-11

PRIOR APPLICATION NUMBER: 60/580,347

PRIOR FILING DATE: 2004-06-18

PRIOR APPLICATION NUMBER: 10/293,418

PRIOR FILING DATE: 2002-11-14

PRIOR APPLICATION NUMBER: 60/331,469

PRIOR FILING DATE: 2001-11-16

PRIOR APPLICATION NUMBER: 60/340,817

PRIOR FILING DATE: 2001-12-19

PRIOR APPLICATION NUMBER: 09/880,748

PRIOR FILING DATE: 2001-06-15

PRIOR APPLICATION NUMBER: 60/293,499

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/277,379

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/276,248

PRIOR FILING DATE: 2001-03-16

PRIOR APPLICATION NUMBER: 60/240,816

PRIOR FILING DATE: 2000-10-17

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 3247

SEQ ID NO 1019

LENGTH: 249

TYPE: PRT

ORGANISM: Homo sapiens

US-11-054-515-1019

Query Match 68.9%; Score 31; DB 11; Length 249;

Best Local Similarity 75.0%; Pred. No. 81;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
DB 70 TADKLTNT 77

## RESULT 27

US-11-054-515-1024  
; Sequence 1024, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:

APPLICANT: Ruben et al.

TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys

FILE REFERENCE: PF523P3

CURRENT APPLICATION NUMBER: US/11/054,515

PRIOR FILING DATE: 2005-02-10

PRIOR APPLICATION NUMBER: 60/543,296

PRIOR FILING DATE: 2004-02-11

PRIOR APPLICATION NUMBER: 60/580,347

PRIOR FILING DATE: 2004-06-18

PRIOR APPLICATION NUMBER: 10/293,418

PRIOR FILING DATE: 2002-11-14

PRIOR APPLICATION NUMBER: 60/331,469

PRIOR FILING DATE: 2001-11-16

PRIOR APPLICATION NUMBER: 60/340,817

PRIOR FILING DATE: 2001-12-19

PRIOR APPLICATION NUMBER: 09/880,748

PRIOR FILING DATE: 2001-06-15

PRIOR APPLICATION NUMBER: 60/293,499

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/277,379

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/276,248

PRIOR FILING DATE: 2001-03-16

PRIOR APPLICATION NUMBER: 60/240,816

PRIOR FILING DATE: 2000-10-17

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 3247

SEQ ID NO 1024

LENGTH: 249

TYPE: PRT

ORGANISM: Homo sapiens

US-11-054-515-1024

Query Match 68.9%; Score 31; DB 11; Length 249;

Best Local Similarity 75.0%; Pred. No. 81;

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||



Db 70 TADKLTNT 77

RESULT 28  
US-11-054-515-1123  
; Sequence 1123, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; CURRENT FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1123  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1123

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 29  
US-11-054-515-1202  
; Sequence 1202, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; CURRENT FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1377  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1377

PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1202  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1202

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 30  
US-11-054-515-1377  
; Sequence 1377, Application US/11054515  
; Publication No. US20050255532A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P3  
; CURRENT APPLICATION NUMBER: US/11/054,515  
; CURRENT FILING DATE: 2005-02-10  
; PRIOR APPLICATION NUMBER: 60/543,296  
; PRIOR FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/580,347  
; PRIOR FILING DATE: 2004-06-18  
; PRIOR APPLICATION NUMBER: 10/293,418  
; PRIOR FILING DATE: 2002-11-14  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 1377  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-054-515-1377

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TLEKLTNT 9  
|:|||||  
Db 70 TADKLTNT 77

RESULT 31  
US-11-054-515-1570

```
Sequence 1570, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PENDING PRIORITY DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1570
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1570

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 32
US-11-054-515-1571
; Sequence 1571, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PENDING PRIORITY DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1572
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1572

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 33
US-11-054-515-1572
; Sequence 1572, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PENDING PRIORITY DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1572
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1572

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 34
US-11-054-515-1573
; Sequence 1573, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
```

```
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1571
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1571

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 33
US-11-054-515-1572
; Sequence 1572, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; PENDING PRIORITY DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1572
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1572

Query Match      68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 34
US-11-054-515-1573
; Sequence 1573, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
```

```
/ FILE REFERENCE: PF523PJ3
/ CURRENT APPLICATION NUMBER: US/11/054,515
/ CURRENT FILING DATE: 2005-02-10
/ PRIOR APPLICATION NUMBER: 60/543,296
/ PRIOR FILING DATE: 2004-02-11
/ PRIOR APPLICATION NUMBER: 60/580,347
/ PRIOR FILING DATE: 2004-06-18
/ PRIOR APPLICATION NUMBER: 10/293,418
/ PRIOR FILING DATE: 2002-11-14
/ PRIOR APPLICATION NUMBER: 60/331,469
/ PRIOR FILING DATE: 2001-11-16
/ PRIOR APPLICATION NUMBER: 60/340,817
/ PRIOR FILING DATE: 2001-12-19
/ PRIOR APPLICATION NUMBER: 09/880,748
/ PRIOR FILING DATE: 2001-06-15
/ PRIOR APPLICATION NUMBER: 60/293,499
/ PRIOR FILING DATE: 2001-05-25
/ PRIOR APPLICATION NUMBER: 60/277,379
/ PRIOR FILING DATE: 2001-03-21
/ PRIOR APPLICATION NUMBER: 60/276,248
/ PRIOR FILING DATE: 2001-03-16
/ PRIOR APPLICATION NUMBER: 60/240,816
/ PRIOR FILING DATE: 2000-10-17
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 3247
/ SEQ ID NO 1573
/ LENGTH: 249
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-054-515-1573

Query Match          68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 36
US-11-266-444-1019
/ Sequence 1019, Application US/11266444
/ Publication No. US20060062789A1
/ GENERAL INFORMATION:
/ APPLICANT: Ruben et al.
/ TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat
/ FILE REFERENCE: PF523PID1
/ CURRENT APPLICATION NUMBER: US/11/266,444
/ CURRENT FILING DATE: 2005-11-04
/ PRIOR APPLICATION NUMBER: 09/880,746
/ PRIOR FILING DATE: 2001-06-15
/ PRIOR APPLICATION NUMBER: 60/212,210
/ PRIOR FILING DATE: 2000-06-16
/ PRIOR APPLICATION NUMBER: 60/240,816
/ PRIOR FILING DATE: 2000-10-17
/ PRIOR APPLICATION NUMBER: 60/276,248
/ PRIOR FILING DATE: 2001-03-16
/ PRIOR APPLICATION NUMBER: 60/277,379
/ PRIOR FILING DATE: 2001-03-21
/ PRIOR APPLICATION NUMBER: 60/293,499
/ PRIOR FILING DATE: 2001-05-25
/ NUMBER OF SEQ ID NOS: 3239
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 1019
/ LENGTH: 249
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-266-444-1019

Query Match          68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77

RESULT 37
US-11-266-444-1024
/ Sequence 1024, Application US/11266444
/ Publication No. US20060062789A1
/ GENERAL INFORMATION:
/ APPLICANT: Ruben et al.
/ TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat
/ FILE REFERENCE: PF523PID1
/ CURRENT APPLICATION NUMBER: US/11/266,444
/ CURRENT FILING DATE: 2005-11-04
/ PRIOR APPLICATION NUMBER: 09/880,746
/ PRIOR FILING DATE: 2001-06-15
/ PRIOR APPLICATION NUMBER: 60/212,210
/ PRIOR FILING DATE: 2000-06-16
/ PRIOR APPLICATION NUMBER: 60/240,816
/ PRIOR FILING DATE: 2000-10-17
/ PRIOR APPLICATION NUMBER: 60/276,248
/ PRIOR FILING DATE: 2001-03-16
/ PRIOR APPLICATION NUMBER: 60/277,379
/ PRIOR FILING DATE: 2001-03-21
/ PRIOR APPLICATION NUMBER: 60/293,499
/ PRIOR FILING DATE: 2001-05-25
/ NUMBER OF SEQ ID NOS: 3239
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 1024
/ LENGTH: 249
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-11-266-444-1024
```

US-11-266-444-1024

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
Db 70 TADKLTNT 77

RESULT 38

US-11-266-444-1123  
; Sequence 1123, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat  
; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444  
; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1123  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-266-444-1123

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
Db 70 TADKLTNT 77

RESULT 39

US-11-266-444-1202  
; Sequence 1202, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat  
; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444  
; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1202

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo sapiens  
US-11-266-444-1202

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
Db 70 TADKLTNT 77

RESULT 40

US-11-266-444-1377  
; Sequence 1377, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat  
; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444  
; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1377  
; LENGTH: 249  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-266-444-1377

Query Match 68.9%; Score 31; DB 11; Length 249;  
Best Local Similarity 75.0%; Pred. No. 81;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLEKLTNT 9  
| : |||||  
Db 70 TADKLTNT 77

RESULT 41

US-11-266-444-1570  
; Sequence 1570, Application US/11266444  
; Publication No. US2006062789A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulat  
; FILE REFERENCE: PF523P1D1  
; CURRENT APPLICATION NUMBER: US/11/266,444  
; CURRENT FILING DATE: 2005-11-04  
; PRIOR APPLICATION NUMBER: 09/880,746  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16

```
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1570
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1570
```

```
Query Match          68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

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QY      2 TLEKLTNT 9
        | : |||||
Db      70 TADKLTNT 77
```

```
RESULT 42
US-11-266-444-1571
; Sequence 1571, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; PRIOR FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1571
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1571
```

```
Query Match          68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 TLEKLTNT 9
        | : |||||
Db      70 TADKLTNT 77
```

```
RESULT 43
US-11-266-444-1572
; Sequence 1572, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; PRIOR FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
```

```
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1572
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1572
```

```
Query Match          68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 TLEKLTNT 9
        | : |||||
Db      70 TADKLTNT 77
```

```
RESULT 44
US-11-266-444-1573
; Sequence 1573, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind to B Lymphocyte Stimulato
; FILE REFERENCE: PF523P1D1
; CURRENT APPLICATION NUMBER: US/11/266,444
; PRIOR FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1573
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-266-444-1573
```

```
Query Match          68.9%; Score 31; DB 11; Length 249;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 TLEKLTNT 9
        | : |||||
Db      70 TADKLTNT 77
```

```
RESULT 45
US-11-054-515-1014
; Sequence 1014, Application US/11054515
; Publication No. US2005025532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
```

```

; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1014
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1014

Query Match      68.9%; Score 31; DB 11; Length 250;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLNT 77

RESULT 46
US-11-054-515-1159
; Sequence 1159, Application US/11/054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1159
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1159
```

```

; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1159

Query Match      68.9%; Score 31; DB 11; Length 250;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLNT 77

RESULT 47
US-11-054-515-1168
; Sequence 1168, Application US/11/054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1168
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1168

Query Match      68.9%; Score 31; DB 11; Length 250;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLNT 77

RESULT 48
US-11-054-515-1212
; Sequence 1212, Application US/11/054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-02-11
```

```
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1212
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1212
```

```
Query Match      68.9%; Score 31; DB 11; Length 250;
Best Local Similarity 75.0%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

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Qy      2 TLEKLTNT 9
      | : |||||
Db      70 TADKLTNT 77
```

```
RESULT 49
US-11-054-515-1535
; Sequence 1535, Application US/11054515
; Publication No. US2005025532A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
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; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
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; NUMBER OF SEQ ID NOS: 3247
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; ORGANISM: Homo sapiens
US-11-054-515-1535
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; Publication No. US2005025532A1
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; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
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; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
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; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
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; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1540
; LENGTH: 250
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; ORGANISM: Homo sapiens
US-11-054-515-1540
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Job time : 9.4 secs
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GenCore version 5.1.7  
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OM protein - protein search, using BW model

Run on: May 5, 2006, 05:36:41 ; Search time 20.9 Seconds  
(without alignments)  
35.602 Million cell updates/sec

Title: US-08-170-344-29  
Perfect score: 47  
Sequence: 1 LTNTGLYNL 9

Scoring table: BLOSUM62  
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Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Issued\_Patents\_AA:\*  
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3: /cgn2\_6/ptodata/1/1aa/R-COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

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6	37	78.7	11	2	US-08-159-339A-1173
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8	35	74.5	209	2	US-09-248-796A-28163
9	35	74.5	329	2	US-09-502-540-11517
10	35	74.5	818	2	US-09-248-796A-18342
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18	33	70.2	263	2	US-09-543-681A-5138
19	33	70.2	510	1	US-08-249-112-3
20	33	70.2	534	4	PCT-US95-06556-3
21	33	70.2	534	4	US-09-270-767-48833
22	33	70.2	567	1	US-08-841-483-2
23	33	70.2	567	1	US-09-382-911-2
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25	33	70.2	789	2	US-09-252-912A-27011
26	33	70.2	943	2	US-09-056-556-204
27	33	70.2	943	2	US-09-072-596-199

28	33	70.2	943	2	US-09-477-135A-131	Sequence 131, App
29	33	70.2	943	2	US-09-072-967-204	Sequence 204, App
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31	33	70.2	943	2	US-10-084-843-204	Sequence 204, App
32	33	70.2	1233	2	US-09-252-991A-23237	Sequence 23237, A
33	32	68.1	92	2	US-08-993-359-32	Sequence 32, App1
34	32	68.1	92	2	US-09-482-558A-32	Sequence 32, App1
35	32	68.1	157	2	US-09-270-767-3858	Sequence 3858, A
36	32	68.1	157	2	US-09-270-767-54075	Sequence 54075, A
37	32	68.1	194	2	US-09-902-540-10343	Sequence 10343, A
38	32	68.1	279	2	US-08-549-515-7	Sequence 7, App1
39	32	68.1	304	2	US-10-101-464A-717	Sequence 717, App
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43	32	68.1	728	2	US-09-747-259-18	Sequence 18, App1
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48	32	68.1	1136	2	US-09-001-982-10	Sequence 10, App1
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59	31	66.0	223	2	US-09-120-426-4	Sequence 4, App1
60	31	66.0	283	2	US-08-961-081-14	Sequence 124, App
61	31	66.0	283	2	US-09-536-784-124	Sequence 124, App
62	31	66.0	283	2	US-09-765-271-124	Sequence 124, App
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66	31	66.0	307	2	US-09-134-001C-5144	Sequence 5144, App
67	31	66.0	309	2	US-09-489-035A-7557	Sequence 7557, App
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69	31	66.0	335	2	US-08-987-146-2	Sequence 2, App1
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73	31	66.0	420	2	US-09-107-433-5132	Sequence 5132, App
74	31	66.0	681	2	US-09-252-991A-28831	Sequence 28831, A
75	31	66.0	694	2	US-09-902-540-10624	Sequence 10624, A
76	31	66.0	804	2	US-09-270-767-46146	Sequence 46146, A
77	31	66.0	998	2	US-09-949-016-7757	Sequence 7757, App
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79	31	66.0	1335	2	US-09-134-001C-3716	Sequence 3716, App
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84	30	63.8	205	2	US-09-248-796A-21389	Sequence 21389, A
85	30	63.8	293	2	US-09-720-318A-2	Sequence 2, App1
86	30	63.8	311	2	US-09-413-231-18	Sequence 18, App1
87	30	63.8	311	2	US-10-237-060-1	Sequence 1, App1
88	30	63.8	325	2	US-09-248-796A-17873	Sequence 17873, A
89	30	63.8	327	2	US-09-248-796A-16112	Sequence 16112, A
90	30	63.8	328	2	US-09-583-110-3399	Sequence 3399, App
91	30	63.8	334	2	US-09-107-433-4097	Sequence 4097, App
92	30	63.8	353	2	US-09-482-273-243	Sequence 243, App
93	30	63.8	353	2	US-09-248-796A-16633	Sequence 16633, A
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96	30	63.8	387	1	US-08-175-069A-72	Sequence 72, App1
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109	30	63.8	486	2	US-08-746-559A-5	Sequence 5, Appli	182	29	61.7	432	1	US-08-896-005-4	Sequence 4, Appli
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114	30	63.8	525	1	US-08-461-599-15	Sequence 15, Appl	187	29	61.7	448	2	US-09-540-236-3800	Sequence 3800, Ap
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121	30	63.8	531	1	US-07-862-588B-7	Sequence 7, Appli	194	29	61.7	496	2	US-10-225-060-15	Sequence 15, Appl
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140	30	63.8	1377	2	US-09-948-001-21	Sequence 21, Appl	213	29	61.7	653	2	US-09-661-322A-6	Sequence 6, Appli
141	30	63.8	2509	2	US-09-252-991A-16642	Sequence 16642, A	214	29	61.7	656	2	US-08-444-005-15	Sequence 15, Appl
142	30	63.8	2636	2	US-09-252-991A-25753	Sequence 25753, A	215	29	61.7	656	2	US-09-069-023-28	Sequence 28, Appl
143	30	63.8	2887	2	US-08-462-467B-8	Sequence 8, Appli	216	29	61.7	656	2	US-09-345-473B-30	Sequence 30, Appl
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149	29	61.7	102	2	US-10-004-381-9	Sequence 9, Appli	222	29	61.7	719	2	US-09-218-942-2	Sequence 2, Appli
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152	29	61.7	160	2	US-09-107-532A-7249	Sequence 7249, Ap	225	29	61.7	1186	2	US-09-178-252-23	Sequence 23, Appl
153	29	61.7	191	2	US-09-711-164-414	Sequence 414, App	226	29	61.7	1186	2	US-09-426-660-23	Sequence 23, Appl
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166	29	61.7	310	4	PCT-US95-04801-6	Sequence 6, Appli	239	29	61.7	1724	1	US-08-477-451-15	Sequence 15, Appl
167	29	61.7	311	2	US-09-710-279-3080	Sequence 3080, Ap	240	29	61.7	2079	2	US-09-439-016-8301	Sequence 8301, Ap
168	29	61.7	313	1	US-08-592-411-15	Sequence 15, Appl	241	29	61.7	3135	1	US-08-323-170B-2	Sequence 2, Appli
169	29	61.7	314	1	US-08-592-411-17	Sequence 17, Appl	242	29	61.7	3135	1	US-08-323-170B-2	Sequence 2, Appli
170	29	61.7	319	2	US-09-583-110-5004	Sequence 5004, Ap	243	29	59.6	31	2	US-08-437-943D-14	Sequence 14, Appl
171	29	61.7	319	2	US-09-107-433-3453	Sequence 3453, Ap	244	28	59.6	32	2	US-10-002-344A-220	Sequence 220, App
172	29	61.7	323	2	US-09-522-714-8	Sequence 8, Appli	245	28	59.6	47	2	US-08-675-499A-13	Sequence 13, Appl
173	29	61.7	325	6	5320941-2	Patent No. 5320941	246	28	59.6	47	2	US-08-812-008-13	Sequence 13, Appl

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248	28	59.6	49	2	US-09-185-607-3	Sequence 3, Appl1	321	28	59.6	394	2	US-09-248-796B-23067	Sequence 23067, A
249	28	59.6	89	2	US-09-583-110-3660	Sequence 3660, Ap	322	28	59.6	397	2	US-09-489-039A-12210	Sequence 12210, A
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251	28	59.6	100	2	US-09-248-796A-27319	Sequence 27319, A	324	28	59.6	409	2	US-10-09A-944-33	Sequence 33, Appl
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288	28	59.6	264	2	US-08-969-644-12	Sequence 12, Appl	361	28	59.6	545	2	US-10-237-551-157	Sequence 157, App
289	28	59.6	264	2	US-08-444-189-12	Sequence 12, Appl	362	28	59.6	547	2	US-10-237-551-215	Sequence 215, App
290	28	59.6	264	2	US-08-465-465-2	Sequence 12, Appl	363	28	59.6	547	2	US-10-237-551-216	Sequence 216, App
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299	28	59.6	311	1	US-08-481-985B-70	Sequence 70, Appl	372	28	59.6	618	2	US-09-134-000C-6538	Sequence 6538, Ap
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312	28	59.6	370	2	US-08-468-544-23	Sequence 23, Appl	385	28	59.6	714	2	US-09-605-703B-2310	Sequence 3973, Ap
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317	28	59.6	383	2	US-08-464-000-78	Sequence 78, Appl	390	28	59.6	747	2	US-09-307-106-54	Sequence 10045, A
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398	28	59.6	858	1	US-08-265-628-2	Sequence 2, Appl1
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410	28	59.6	2516	2	US-08-895-590-2	Sequence 2, Appl1
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415	28	59.6	4588	2	US-10-025-225-8	Sequence 8, Appl1
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423	27	57.4	26	1	US-07-864-475A-8	Sequence 8, Appl1
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435	27	57.4	37	2	US-09-673-395A-513	Sequence 513, App
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494	27	57.4	104	2	US-09-490-324-168	Sequence 168, App
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506	27	57.4	121	2	US-09-910-059-20	Sequence 20, Appl1
507	27	57.4	122	2	US-09-710-279-2012	Sequence 2012, Ap
508	27	57.4	130	2	US-09-134-001C-1992	Sequence 3992, Ap
509	27	57.4	131	2	US-09-621-976-4639	Sequence 4639, Ap
510	27	57.4	136	2	US-09-781-100-7	Sequence 7, Appl1
511	27	57.4	140	2	US-09-107-433-3472	Sequence 3472, Ap
512	27	57.4	149	2	US-09-270-767-40911	Sequence 40911, A
513	27	57.4	149	2	US-09-270-767-56127	Sequence 56127, A
514	27	57.4	153	2	US-09-270-767-37175	Sequence 37175, A
515	27	57.4	153	2	US-09-270-767-52392	Sequence 52392, A
516	27	57.4	155	2	US-09-270-767-61837	Sequence 61837, A
517	27	57.4	167	2	US-09-171-945-24	Sequence 24, Appl1
518	27	57.4	167	2	US-09-460-739-5	Sequence 5, Appl1
519	27	57.4	167	2	US-09-460-739-5	Sequence 5, Appl1
520	27	57.4	168	2	US-09-270-767-57047	Sequence 57047, A
521	27	57.4	171	2	US-09-252-991A-27423	Sequence 27423, A
522	27	57.4	183	2	US-09-489-039A-7793	Sequence 7793, Ap
523	27	57.4	191	2	US-10-232-459-3	Sequence 3, Appl1
524	27	57.4	207	2	US-09-270-767-32417	Sequence 32417, A
525	27	57.4	208	2	US-09-248-796A-24302	Sequence 24302, A
526	27	57.4	213	2	US-09-543-681A-1803	Sequence 4803, Ap
527	27	57.4	219	2	US-09-460-384-37	Sequence 37, Appl1
528	27	57.4	222	1	US-08-458-516-22	Sequence 22, Appl1
529	27	57.4	222	1	US-09-699-705-13	Sequence 13, Appl1
530	27	57.4	225	2	US-09-456-090A-54	Sequence 54, Appl1
531	27	57.4	225	2	US-09-456-090A-56	Sequence 56, Appl1
532	27	57.4	225	2	US-09-456-090A-58	Sequence 58, Appl1
533	27	57.4	225	2	US-09-456-090A-60	Sequence 60, Appl1
534	27	57.4	225	2	US-09-456-090A-62	Sequence 62, Appl1
535	27	57.4	225	2	US-09-456-090A-66	Sequence 66, Appl1
536	27	57.4	225	2	US-09-456-090A-68	Sequence 68, Appl1
537	27	57.4	225	2	US-09-456-090A-70	Sequence 70, Appl1
538	27	57.4	225	2	US-09-456-090A-92	Sequence 92, Appl1

539	-27	57.4	225	2	US-09-456-090A-94	Sequence 94, Appl	612	27	57.4	232	4	PCT-US93-07832-29	Sequence 29, Appl
540	-27	57.4	225	2	US-09-456-090A-96	Sequence 96, Appl	613	27	57.4	232	4	PCT-US93-07832-31	Sequence 31, Appl
541	27	57.4	225	2	US-09-456-090A-98	Sequence 98, Appl	614	27	57.4	232	4	PCT-US93-07832-33	Sequence 33, Appl
542	27	57.4	225	2	US-09-456-090A-100	Sequence 100, App	615	27	57.4	232	4	PCT-US93-07832-35	Sequence 35, Appl
543	27	57.4	225	2	US-09-456-090A-102	Sequence 102, App	616	27	57.4	232	4	PCT-US93-07832-37	Sequence 37, Appl
544	27	57.4	225	2	US-09-456-090A-106	Sequence 106, App	617	27	57.4	232	4	PCT-US93-07832-39	Sequence 39, Appl
545	27	57.4	225	2	US-09-456-090A-108	Sequence 110, App	618	27	57.4	232	4	PCT-US93-07832-41	Sequence 41, Appl
546	-27	57.4	225	2	US-09-456-090A-110	Sequence 110, App	619	27	57.4	232	4	PCT-US93-07832-43	Sequence 43, Appl
547	27	57.4	225	2	US-09-453-234-54	Sequence 54, Appl	620	27	57.4	233	1	US-08-480-753-2	Sequence 25, Appl
548	27	57.4	225	2	US-09-453-234-56	Sequence 56, Appl	621	27	57.4	233	1	US-08-887-352B-25	Sequence 26, Appl
549	27	57.4	225	2	US-09-453-234-58	Sequence 58, Appl	622	27	57.4	233	1	US-08-887-352B-26	Sequence 27, Appl
550	-27	57.4	225	2	US-09-453-234-60	Sequence 60, Appl	623	27	57.4	233	1	US-08-444-644-23	Sequence 33, Appl
551	-27	57.4	225	2	US-09-453-234-62	Sequence 62, Appl	624	27	57.4	233	2	US-08-837-058-9	Sequence 9, Appl
552	-27	57.4	225	2	US-09-453-234-66	Sequence 66, Appl	625	27	57.4	233	2	US-08-837-058-9	Sequence 25, Appl
553	27	57.4	225	2	US-09-453-234-68	Sequence 68, Appl	626	27	57.4	233	2	US-09-109-207C-25	Sequence 26, Appl
554	27	57.4	225	2	US-09-453-234-70	Sequence 70, Appl	627	27	57.4	233	2	US-09-109-207C-26	Sequence 25, Appl
555	27	57.4	225	2	US-09-453-234-92	Sequence 92, Appl	628	27	57.4	233	2	US-09-109-207C-26	Sequence 26, Appl
556	-27	57.4	225	2	US-09-453-234-94	Sequence 94, Appl	629	27	57.4	233	2	US-09-296-005-25	Sequence 26, Appl
557	-27	57.4	225	2	US-09-453-234-96	Sequence 96, Appl	630	27	57.4	233	2	US-09-296-005-26	Sequence 33, Appl
558	-27	57.4	225	2	US-09-453-234-98	Sequence 98, Appl	631	27	57.4	233	2	US-08-232-246A-33	Sequence 9, Appl
559	27	57.4	225	2	US-09-453-234-100	Sequence 100, App	632	27	57.4	233	2	US-09-417-264-9	Sequence 25, Appl
560	27	57.4	225	2	US-09-453-234-102	Sequence 102, App	633	27	57.4	233	2	US-09-920-171-25	Sequence 26, Appl
561	27	57.4	225	2	US-09-453-234-106	Sequence 106, App	634	27	57.4	233	2	US-09-920-171-26	Sequence 25, Appl
562	27	57.4	225	2	US-09-453-234-108	Sequence 108, App	635	27	57.4	233	2	US-09-716-028-25	Sequence 26, Appl
563	27	57.4	225	2	US-09-453-234-110	Sequence 110, App	636	27	57.4	233	2	US-09-716-028-26	Sequence 33, Appl
564	27	57.4	227	2	US-10-135-636-2	Sequence 2, Appl	637	27	57.4	233	2	US-08-232-246A-30	Sequence 9, Appl
565	27	57.4	228	2	US-09-902-540-16049	Sequence 16049, A	638	27	57.4	233	1	US-10-113-996-25	Sequence 26, Appl
566	27	57.4	229	1	US-08-887-352B-20	Sequence 20, Appl	639	27	57.4	233	1	US-08-458-516-23	Sequence 25, Appl
567	27	57.4	229	1	US-08-887-352B-21	Sequence 21, Appl	640	27	57.4	235	1	US-08-458-516-23	Sequence 26, Appl
568	27	57.4	229	2	US-09-109-207C-20	Sequence 20, Appl	641	27	57.4	235	2	US-07-934-373C-10	Sequence 19, Appl
569	27	57.4	229	2	US-09-109-207C-21	Sequence 21, Appl	642	27	57.4	235	2	US-08-444-644-19	Sequence 28, Appl
570	27	57.4	229	2	US-09-296-005-20	Sequence 20, Appl	643	27	57.4	235	2	US-08-444-644-28	Sequence 42, Appl
571	27	57.4	229	2	US-09-326-005-21	Sequence 21, Appl	644	27	57.4	235	2	US-08-444-644-42	Sequence 30, Appl
572	27	57.4	229	2	US-09-920-171-20	Sequence 20, Appl	645	27	57.4	235	2	US-08-437-642B-30	Sequence 19, Appl
573	27	57.4	229	2	US-09-920-171-21	Sequence 21, Appl	646	27	57.4	235	2	US-08-232-246A-19	Sequence 28, Appl
574	27	57.4	229	2	US-09-716-028-20	Sequence 20, Appl	647	27	57.4	235	2	US-08-232-246A-42	Sequence 42, Appl
575	27	57.4	229	2	US-09-716-028-21	Sequence 21, Appl	648	27	57.4	235	4	PCT-US93-07832-30	Sequence 30, Appl
576	27	57.4	229	2	US-10-113-996-20	Sequence 20, Appl	649	27	57.4	236	1	US-08-070-116A-2	Sequence 2, Appl
577	27	57.4	229	2	US-10-113-996-21	Sequence 21, Appl	650	27	57.4	236	2	US-08-557-050-2	Sequence 2, Appl
578	27	57.4	230	2	US-08-952-235-2	Sequence 2, Appl	651	27	57.4	236	2	US-09-456-090A-64	Sequence 64, Appl
579	27	57.4	230	2	US-09-669-971-2	Sequence 2, Appl	652	27	57.4	236	2	US-09-456-090A-104	Sequence 104, Appl
580	27	57.4	231	1	US-09-543-681A-8125	Sequence 8125, Ap	653	27	57.4	236	2	US-09-453-234-64	Sequence 64, Appl
581	27	57.4	232	1	US-08-425-763-2	Sequence 2, Appl	654	27	57.4	236	2	US-09-453-234-104	Sequence 104, App
582	27	57.4	232	1	US-07-934-373C-26	Sequence 26, Appl	655	27	57.4	240	2	US-09-270-709-1	Sequence 187, App
583	27	57.4	232	1	US-07-934-373C-27	Sequence 27, Appl	656	27	57.4	241	2	US-09-726-219A-187	Sequence 187, App
584	27	57.4	232	1	US-07-934-373C-28	Sequence 28, Appl	657	27	57.4	241	2	US-09-196-522-187	Sequence 4, Appl
585	27	57.4	232	1	US-07-934-373C-29	Sequence 29, Appl	658	27	57.4	241	2	US-08-480-753-4	Sequence 23, Appl
586	27	57.4	232	1	US-07-934-373C-31	Sequence 31, Appl	659	27	57.4	241	2	US-08-951-822-23	Sequence 4, Appl
587	27	57.4	232	1	US-07-934-373C-32	Sequence 32, Appl	660	27	57.4	241	2	US-08-705-245-11	Sequence 11, Appl
588	27	57.4	232	1	US-07-934-373C-33	Sequence 33, Appl	661	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
589	27	57.4	232	1	US-07-934-373C-34	Sequence 34, Appl	662	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
590	27	57.4	232	1	US-07-934-373C-35	Sequence 35, Appl	663	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
591	27	57.4	232	1	US-07-934-373C-36	Sequence 36, Appl	664	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
592	27	57.4	232	1	US-07-934-373C-37	Sequence 37, Appl	665	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
593	27	57.4	232	1	US-07-934-373C-38	Sequence 38, Appl	666	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
594	27	57.4	232	1	US-08-788-800-10	Sequence 10, Appl	667	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
595	27	57.4	232	1	US-08-437-642B-26	Sequence 26, Appl	668	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
596	27	57.4	232	2	US-08-437-642B-27	Sequence 27, Appl	669	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
597	27	57.4	232	2	US-08-437-642B-28	Sequence 28, Appl	670	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
598	27	57.4	232	2	US-08-437-642B-29	Sequence 29, Appl	671	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
599	27	57.4	232	2	US-08-437-642B-31	Sequence 31, Appl	672	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
600	27	57.4	232	2	US-08-437-642B-32	Sequence 32, Appl	673	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
601	27	57.4	232	2	US-08-437-642B-33	Sequence 33, Appl	674	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
602	27	57.4	232	2	US-08-437-642B-34	Sequence 34, Appl	675	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
603	27	57.4	232	2	US-08-437-642B-35	Sequence 35, Appl	676	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
604	27	57.4	232	2	US-08-437-642B-36	Sequence 36, Appl	677	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
605	27	57.4	232	2	US-08-437-642B-37	Sequence 37, Appl	678	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
606	27	57.4	232	2	US-08-437-642B-38	Sequence 38, Appl	679	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
607	27	57.4	232	2	US-08-811-757-2	Sequence 2, Appl	680	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
608	27	57.4	232	2	US-09-249-230-2	Sequence 2, Appl	681	27	57.4	247	2	US-08-705-245-11	Sequence 23, Appl
609	27	57.4	232	4	PCT-US93-07832-26	Sequence 26, Appl	682	27	57.4	251	1	US-08-398-611A-30	Sequence 30, Appl
610	27	57.4	232	4	PCT-US93-07832-27	Sequence 27, Appl	683	27	57.4	251	1	US-08-398-611A-30	Sequence 30, Appl
611	27	57.4	232	4	PCT-US93-07832-28	Sequence 28, Appl	684	27	57.4	251	2	US-08-398-611A-30	Sequence 30, Appl

665	27	57.4	251	2	US-09-026-985-27	Sequence 27, Appl	758	27	57.4	300	2	US-09-364-088-4	Sequence 4, Appl
666	27	57.4	251	2	US-09-121-952A-27	Sequence 27, Appl	759	27	57.4	300	2	US-09-102-716-4	Sequence 4, Appl
667	27	57.4	251	2	US-09-234-340A-27	Sequence 27, Appl	760	27	57.4	300	2	US-09-270-767-45889	Sequence 45889, A
668	27	57.4	251	2	US-09-355-014-27	Sequence 27, Appl	761	27	57.4	300	2	US-09-940-166A-7	Sequence 7, Appl
669	27	57.4	252	1	US-08-398-613A-30	Sequence 30, Appl	762	27	57.4	302	2	US-09-248-796A-24789	Sequence 24789, A
670	27	57.4	252	1	US-08-253-877C-6	Sequence 6, Appl	763	27	57.4	306	2	US-09-171-945-95	Sequence 95, Appl
671	27	57.4	252	1	US-08-462-169B-2	Sequence 2, Appl	764	27	57.4	306	2	US-09-910-059-95	Sequence 95, Appl
672	27	57.4	252	1	US-08-462-169B-23	Sequence 23, Appl	765	27	57.4	308	2	US-09-248-796A-14626	Sequence 14626, A
673	27	57.4	252	1	US-08-452-164A-6	Sequence 6, Appl	766	27	57.4	310	2	US-09-136-658-2	Sequence 2, Appl
674	27	57.4	252	1	US-09-103-079-2	Sequence 2, Appl	767	27	57.4	312	2	US-09-710-279-2186	Sequence 2186, A
675	27	57.4	252	2	US-09-103-079-23	Sequence 23, Appl	768	27	57.4	313	2	US-09-270-767-44375	Sequence 44375, A
676	27	57.4	252	2	US-09-425-021-2	Sequence 2, Appl	769	27	57.4	317	1	US-08-977-847-3	Sequence 3, Appl
677	27	57.4	252	2	US-09-425-021-23	Sequence 23, Appl	770	27	57.4	317	1	US-09-195-021-3	Sequence 3, Appl
678	27	57.4	252	2	US-09-564-829-2	Sequence 2, Appl	771	27	57.4	317	2	US-08-940-424-4	Sequence 4, Appl
679	27	57.4	253	1	US-08-398-613A-58	Sequence 58, Appl	772	27	57.4	320	2	US-08-489-039A-9398	Sequence 9398, Ap
700	27	57.4	253	1	US-08-398-612A-58	Sequence 58, Appl	773	27	57.4	323	2	US-09-134-001C-3133	Sequence 3133, Ap
701	27	57.4	253	1	US-08-398-611A-58	Sequence 58, Appl	774	27	57.4	325	2	US-09-134-000C-4346	Sequence 4346, Ap
702	27	57.4	253	1	US-08-491-334A-58	Sequence 58, Appl	775	27	57.4	326	1	US-08-656-586-9	Sequence 9, Appl
703	27	57.4	253	2	US-09-027-449-44	Sequence 44, Appl	776	27	57.4	327	1	US-08-761-277A-47	Sequence 47, Appl
704	27	57.4	253	2	US-09-027-449-52	Sequence 52, Appl	777	27	57.4	328	2	US-09-253-316-28	Sequence 28, Appl
705	27	57.4	253	2	US-09-027-449-55	Sequence 55, Appl	778	27	57.4	328	2	US-09-489-039A-13216	Sequence 13216, A
706	27	57.4	253	2	US-08-804-444A-44	Sequence 44, Appl	779	27	57.4	328	2	US-09-961-403-2	Sequence 2, Appl
707	27	57.4	253	2	US-08-804-444A-52	Sequence 52, Appl	780	27	57.4	328	6	5212074-4	Patent No. 5212074
708	27	57.4	253	2	US-08-804-444A-55	Sequence 55, Appl	781	27	57.4	329	2	US-09-313-942-12	Sequence 12, Appl
709	27	57.4	253	2	US-09-026-985-44	Sequence 44, Appl	782	27	57.4	329	2	US-10-282-162-12	Sequence 12, Appl
710	27	57.4	253	2	US-09-026-985-52	Sequence 52, Appl	783	27	57.4	330	2	US-09-301-593-22	Sequence 22, Appl
711	27	57.4	253	2	US-09-026-985-55	Sequence 55, Appl	784	27	57.4	331	1	US-08-646-981-17	Sequence 17, Appl
712	27	57.4	253	2	US-09-121-952A-44	Sequence 44, Appl	785	27	57.4	334	1	US-08-646-981-16	Sequence 16, Appl
713	27	57.4	253	2	US-09-121-952A-52	Sequence 52, Appl	786	27	57.4	341	2	US-09-800-170-4	Sequence 4, Appl
714	27	57.4	253	2	US-09-121-952A-55	Sequence 55, Appl	787	27	57.4	352	2	US-09-514-521-1	Sequence 1, Appl
715	27	57.4	253	2	US-09-234-340A-44	Sequence 44, Appl	788	27	57.4	352	2	US-09-791-165-2	Sequence 2, Appl
716	27	57.4	253	2	US-09-234-340A-52	Sequence 52, Appl	789	27	57.4	352	2	US-09-791-165-4	Sequence 4, Appl
717	27	57.4	253	2	US-09-234-340A-55	Sequence 55, Appl	790	27	57.4	352	2	US-09-828-995B-38	Sequence 38, Appl
718	27	57.4	253	2	US-09-355-014-44	Sequence 44, Appl	791	27	57.4	356	2	US-09-270-767-46120	Sequence 46120, A
719	27	57.4	253	2	US-09-355-014-52	Sequence 52, Appl	792	27	57.4	365	2	US-09-801-874-5	Sequence 5, Appl
720	27	57.4	254	2	US-09-355-014-55	Sequence 55, Appl	793	27	57.4	366	2	US-09-248-796A-17943	Sequence 17943, A
721	27	57.4	254	2	US-08-908-469-101	Sequence 101, App	794	27	57.4	369	2	US-09-248-796A-15604	Sequence 15604, A
722	27	57.4	255	2	US-09-171-945-19	Sequence 19, Appl	795	27	57.4	371	1	US-08-236-311-7	Sequence 7, Appl
723	27	57.4	255	2	US-09-171-945-57	Sequence 57, Appl	796	27	57.4	371	2	US-08-457-918-7	Sequence 7, Appl
724	27	57.4	255	2	US-09-543-681A-5383	Sequence 5383, Ap	797	27	57.4	371	2	US-10-157-408-7	Sequence 7, Appl
725	27	57.4	255	2	US-09-910-059-19	Sequence 19, Appl	798	27	57.4	373	2	US-09-828-995B-35	Sequence 35, Appl
726	27	57.4	255	2	US-09-910-059-57	Sequence 57, Appl	799	27	57.4	374	2	US-09-270-767-36720	Sequence 36720, A
727	27	57.4	256	2	US-09-027-449-70	Sequence 70, Appl	800	27	57.4	374	2	US-09-270-767-51937	Sequence 51937, A
728	27	57.4	256	2	US-09-026-985-70	Sequence 70, Appl	801	27	57.4	375	2	US-09-828-995B-32	Sequence 32, Appl
729	27	57.4	256	2	US-09-121-952A-70	Sequence 70, Appl	802	27	57.4	377	1	US-08-761-277A-45	Sequence 45, Appl
730	27	57.4	256	2	US-09-234-340A-70	Sequence 70, Appl	803	27	57.4	389	2	US-09-543-681A-7318	Sequence 7318, Ap
731	27	57.4	256	2	US-09-355-014-70	Sequence 70, Appl	804	27	57.4	386	2	US-08-985-808-24	Sequence 24, Appl
732	27	57.4	257	2	US-09-949-016-11183	Sequence 11183, A	805	27	57.4	397	1	US-10-363-937-8	Sequence 8, Appl
733	27	57.4	258	2	US-09-328-352-4253	Sequence 4253, Ap	806	27	57.4	397	1	US-08-098-141-2	Sequence 2, Appl
734	27	57.4	259	2	US-09-617-805-8	Sequence 8, Appl	807	27	57.4	401	2	US-09-489-039A-11921	Sequence 11921, A
735	27	57.4	260	2	US-09-171-945-93	Sequence 93, Appl	808	27	57.4	401	2	US-09-248-796A-15172	Sequence 15172, A
736	27	57.4	260	2	US-09-910-059-93	Sequence 93, Appl	809	27	57.4	402	2	US-09-489-039A-12073	Sequence 12073, A
737	27	57.4	261	2	US-09-134-001C-4966	Sequence 4966, Ap	810	27	57.4	405	1	US-08-519-081-2	Sequence 2, Appl
738	27	57.4	268	2	US-09-134-000C-5975	Sequence 5975, A	811	27	57.4	405	1	US-08-754-369-2	Sequence 2, Appl
739	27	57.4	269	2	US-09-902-540-12352	Sequence 12352, A	812	27	57.4	409	2	US-08-754-369-2	Sequence 2, Appl
740	27	57.4	273	2	US-08-397-411-6	Sequence 6, Appl	813	27	57.4	410	2	US-10-272-490-52	Sequence 52, Appl
741	27	57.4	274	2	US-09-248-796A-20527	Sequence 20527, A	814	27	57.4	411	2	US-09-248-796A-21007	Sequence 21007, A
742	27	57.4	279	2	US-08-397-411-13	Sequence 13, Appl	815	27	57.4	416	2	US-09-949-016-7087	Sequence 7087, Ap
743	27	57.4	287	2	US-09-134-001C-5603	Sequence 5603, Ap	816	27	57.4	421	2	US-09-949-016-11670	Sequence 11670, A
744	27	57.4	297	2	US-09-489-039A-9087	Sequence 9087, Ap	817	27	57.4	427	2	US-09-248-796A-18684	Sequence 18684, A
745	27	57.4	298	2	US-09-027-449-50	Sequence 60, Appl	818	27	57.4	427	2	US-09-248-796A-18684	Sequence 41803, A
746	27	57.4	298	2	US-08-804-444A-60	Sequence 60, Appl	819	27	57.4	428	1	US-08-480-036-2	Sequence 2, Appl
747	27	57.4	298	2	US-09-026-985-60	Sequence 60, Appl	820	27	57.4	442	1	US-08-461-968A-5	Sequence 2, Appl
748	27	57.4	298	2	US-09-121-952A-60	Sequence 60, Appl	821	27	57.4	442	1	US-08-461-968A-5	Sequence 5, Appl
749	27	57.4	298	2	US-09-234-340A-60	Sequence 60, Appl	822	27	57.4	442	1	US-08-462-571-2	Sequence 2, Appl
750	27	57.4	298	2	US-09-355-014-60	Sequence 60, Appl	823	27	57.4	442	1	US-08-462-571-5	Sequence 5, Appl
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752	27	57.4	300	2	US-09-097-309-7	Sequence 7, Appl	825	27	57.4	442	2	US-08-472-888A-7	Sequence 7, Appl
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754	27	57.4	300	2	US-09-422-712B-3	Sequence 3, Appl	827	27	57.4	442	4	PCT-US96-10043-9	Sequence 12, Appl
755	27	57.4	300	2	US-09-607-756-3	Sequence 3, Appl	828	27	57.4	443	4	PCT-US96-13152-4	Sequence 4, Appl
756	27	57.4	300	2	US-09-188-082-4	Sequence 4, Appl	829	27	57.4	445	2	US-08-341-560B-17	Sequence 17, Appl
757	27	57.4	300	2	US-09-460-587-7	Sequence 7, Appl	830	27	57.4	446	2	US-08-397-411-7	Sequence 7, Appl



831	27	57.4	446	2	US-09-489-039A-7920	Sequence 7920, App	904	27	57.4	451	2	US-09-680-145-2	Sequence 2, Appl
832	27	57.4	449	1	US-08-458-516-13	Sequence 13, Appl	905	27	57.4	451	2	US-09-134-000C-5864	Sequence 1564, App
833	27	57.4	449	2	US-09-679-397-2	Sequence 2, Appl	906	27	57.4	451	2	US-09-920-111-14	Sequence 16, Appl
834	27	57.4	449	2	US-09-680-148-2	Sequence 2, Appl	907	27	57.4	451	2	US-09-920-171-16	Sequence 18, Appl
835	27	57.4	449	2	US-09-504-465A-2	Sequence 2, Appl	908	27	57.4	451	2	US-09-920-171-18	Sequence 16, Appl
836	27	57.4	449	2	US-10-356-974-2	Sequence 2, Appl	909	27	57.4	451	2	US-09-472-087-70	Sequence 14, Appl
837	27	57.4	450	1	US-08-788-800-12	Sequence 12, Appl	910	27	57.4	451	2	US-09-716-028-14	Sequence 16, Appl
838	27	57.4	450	2	US-09-592-891A-14	Sequence 14, Appl	911	27	57.4	451	2	US-09-716-028-18	Sequence 18, Appl
839	27	57.4	450	2	US-09-969-844-14	Sequence 14, App	912	27	57.4	451	2	US-09-483-588-2	Sequence 2, Appl
840	27	57.4	450	2	US-09-996-288-208	Sequence 208, App	913	27	57.4	451	2	US-09-716-028-18	Sequence 2, Appl
841	27	57.4	450	2	US-09-996-288-210	Sequence 210, App	914	27	57.4	451	2	US-10-113-996-16	Sequence 14, Appl
842	27	57.4	450	2	US-09-996-288-212	Sequence 212, App	915	27	57.4	451	2	US-10-113-996-16	Sequence 16, Appl
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845	27	57.4	450	2	US-09-996-288-218	Sequence 218, App	918	27	57.4	451	2	Sequence 22, App	
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875	27	57.4	450	2	US-09-996-288-278	Sequence 278, App	948	27	57.4	461	1	US-09-705-392A-22	
876	27	57.4	450	2	US-09-996-288-280	Sequence 280, App	949	27	57.4	461	2	US-09-705-392A-22	
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889	27	57.4	451	1	US-08-887-352B-14	Sequence 14, Appl	962	27	57.4	467	1	US-08-887-352B-14	
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891	27	57.4	451	1	US-08-887-352B-18	Sequence 18, Appl	964	27	57.4	467	1	US-08-887-352B-18	
892	27	57.4	451	2	US-08-466-151-65	Sequence 65, Appl	965	27	57.4	467	2	US-08-466-151-65	
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979 27 57.4 470 2 US-09-328-352-6912 Sequence 6912, Ap  
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981 27 57.4 470 2 US-09-859-053-28 Sequence 28, Appl  
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984 27 57.4 470 2 US-09-238-741-4 Sequence 4, Appl  
985 27 57.4 470 2 US-10-104-047-3730 Sequence 3730, Ap  
986 27 57.4 471 2 US-09-270-767-61298 Sequence 61298, A  
987 27 57.4 472 2 US-08-793-450-8 Sequence 4, Appl  
988 27 57.4 472 2 US-09-301-593-30 Sequence 30, Appl  
989 27 57.4 472 2 US-09-301-593-43 Sequence 43, Appl  
990 27 57.4 472 2 US-09-248-796A-26201 Sequence 26201, A  
991 27 57.4 472 2 US-09-438-185A-858 Sequence 858, App  
992 27 57.4 473 2 US-09-049-672A-4 Sequence 4, Appl  
993 27 57.4 473 2 US-09-828-995B-20 Sequence 20, Appl  
994 27 57.4 474 2 US-09-828-995B-17 Sequence 17, Appl  
995 27 57.4 474 2 US-09-848-832-3 Sequence 3, Appl  
996 27 57.4 475 2 US-09-740-002-25 Sequence 25, Appl  
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999 27 57.4 476 2 US-08-487-550-4 Sequence 4, Appl  
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## ALIGNMENTS

RESULT 1  
US-08-247-904B-10  
Sequence 10, Application US/08247904B  
Patent No. 5981699  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Eckstein, Jens W.  
APPLICANT: Draetta, Giulio  
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley, Hoag & Eliot  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/247, 904B  
FILING DATE: 23-MAY-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 832-1000  
TELEFAX: (617) 832-7000  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-247-904B-10

Query Match 100.0%; Score 47; DB 1; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTNVTGLYNL 9  
Db 93 LTNVTGLYNL 101

RESULT 2  
US-08-767-942A-19  
Sequence 19, Application US/08767942A  
Patent No. 6068982  
GENERAL INFORMATION:  
APPLICANT: Rolfe, Mark  
APPLICANT: Chiu, M. Isabel  
APPLICANT: Berlin, Vivian  
APPLICANT: Damagnez, Veronique  
APPLICANT: Draetta, Giulio  
APPLICANT: Guillaume, Coctarel  
TITLE OF INVENTION: UBIQUITIN CONJUGATING ENZYMES  
NUMBER OF SEQUENCES: 45  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
STREET: One Post Office Square  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109-2170  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/767, 942A  
FILING DATE: 17-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: MIV-029.04  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-832-1000  
TELEFAX: 617-832-7000  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 158 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-767-942A-19

Query Match 100.0%; Score 47; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTNVTGLYNL 9  
Db 93 LTNVTGLYNL 101

RESULT 3  
US-08-117-083-14  
Sequence 14, Application US/08117083  
Patent No. 5719054  
GENERAL INFORMATION:  
APPLICANT: Bourneil, Michael E.  
APPLICANT: Inglis, Stephen C.  
APPLICANT: Munro, Alan J.  
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human  
Papilloma Virus Proteins  
NUMBER OF SEQUENCES: 70  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Walter H. Dreger  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco



STATE: CA  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/117,083  
FILING DATE: 10-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Dreger, Walter H.  
REGISTRATION NUMBER: 24,190  
REFERENCE/DOCKET NUMBER: A-58783  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
TELEX: 910 277299  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 271 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURES:  
NAME/KEY: Protein  
LOCATION: 1..271  
OTHER INFORMATION: /note="Xaa refers to stop codon in  
OTHER INFORMATION: the open reading frame."  
US-08-117-083-14

Query Match 100.0%; Score 47; DB 1; Length 271;  
Best Local Similarity 100.0%; Pred. No. 0.38;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 LNTGTYNL 9  
DB 94 LNTGTYNL 102

RESULT 4  
US-09-485-885-21  
Sequence 21, Application US/09485885  
GENERAL INFORMATION:  
PATENT NO. 6342224  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 21  
LENGTH: 278  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-21

Query Match 100.0%; Score 47; DB 2; Length 278;  
Best Local Similarity 100.0%; Pred. No. 0.4;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 LNTGTYNL 9  
DB 204 LNTGTYNL 212

RESULT 5  
US-09-485-885-23  
Sequence 23, Application US/09485885  
PATENT NO. 6342224  
GENERAL INFORMATION:  
APPLICANT: Bruck, Claudine  
APPLICANT: Cabezon Silva, Teresa  
APPLICANT: Delisse, Anne-Marie Eva Fernande  
APPLICANT: Gerard, Catherine Marie Ghislaine  
APPLICANT: Lombardo-Bencheikh, Angela  
TITLE OF INVENTION: Vaccine  
FILE REFERENCE: B45107  
CURRENT APPLICATION NUMBER: US/09/485,885  
CURRENT FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/EP98/05285  
PRIOR FILING DATE: 1998-08-17  
PRIOR APPLICATION NUMBER: GB 9717953.5  
PRIOR FILING DATE: 1997-08-22  
NUMBER OF SEQ ID NOS: 23  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 23  
LENGTH: 383  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-485-885-23

Query Match 100.0%; Score 47; DB 2; Length 383;  
Best Local Similarity 100.0%; Pred. No. 0.56;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 LNTGTYNL 9  
DB 204 LNTGTYNL 212

RESULT 6  
US-08-159-339A-1173  
Sequence 1173, Application US/08159339A  
GENERAL INFORMATION:  
PATENT NO. 6057135  
APPLICANT: Kubo, Ralph T.  
APPLICANT: Grey, Howard M.  
APPLICANT: Sette, Alessandro  
APPLICANT: Celis, Eserban  
TITLE OF INVENTION: HLA Binding peptides and Their  
NUMBER OF SEQUENCES: 1254  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Center, Eighth Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/159,339A  
FILING DATE: 29-NOV-1993  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/926,666  
FILING DATE: 07-AUG-1992  
APPLICATION NUMBER: US 08/027,746  
FILING DATE: 05-MAR-1993

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; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Leuwer
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
;
; TRLEX:
; INFORMATION FOR SEQ ID NO: 1173:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 11 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-159-339A-1173

Query Match          78.7%; Score 37; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.9;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTNLTGLY 7
   |||||
DB 5 LTNLTGLY 11

RESULT 7
US-09-902-540-14220
; Sequence 14220, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 14220
; LENGTH: 859
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
; US-09-902-540-14220

Query Match          78.7%; Score 37; DB 2; Length 859;
Best Local Similarity 77.8%; Pred. No. 1e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 LTNLTGLY 9
   |||||
DB 681 LTGTGFY 689

RESULT 8
US-09-248-796A-28163
; Sequence 28163, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR APPLICATION NUMBER: US 60/096,409
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; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 28163
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Candida albicans
; US-09-248-796A-28163

Query Match          74.5%; Score 35; DB 2; Length 209;
Best Local Similarity 62.5%; Pred. No. 53;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1 LTNLTGLY 8
   |||||
DB 137 MTNSGTY 144

RESULT 9
US-09-902-540-11517
; Sequence 11517, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 11517
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
; US-09-902-540-11517

Query Match          74.5%; Score 35; DB 2; Length 329;
Best Local Similarity 85.7%; Pred. No. 87;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLY 9
   |||||
DB 207 NTGLY 213

RESULT 10
US-09-248-796A-18342
; Sequence 18342, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18342
; LENGTH: 818
; TYPE: PRT
; ORGANISM: Candida albicans
; US-09-248-796A-18342

Query Match          74.5%; Score 35; DB 2; Length 818;
Best Local Similarity 75.0%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

OY 1 NTGLYNL 8  
|||:|  
Db 294 LTNOGSTR 301

RESULT 11  
US-09-248-796A-19484  
; Sequence 19484, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 19484  
; LENGTH: 67  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-19484

Query Match 72.3%; Score 34; DB 2; Length 67;  
Best Local Similarity 85.7%; Pred. No. 24;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
|||:|  
Db 38 NTGLFNL 44

RESULT 12  
US-10-104-047-3590  
; Sequence 3590, Application US/10104047  
; Patent No. 6943241  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. 6943241el full length cDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3590  
; LENGTH: 258  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3590

Query Match 72.3%; Score 34; DB 2; Length 258;  
Best Local Similarity 85.7%; Pred. No. 1e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
|||:|  
Db 57 NTGLFNL 63

RESULT 13  
US-09-949-016-8076  
; Sequence 8076, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8076  
; LENGTH: 736  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-8076

Query Match 72.3%; Score 34; DB 2; Length 736;  
Best Local Similarity 85.7%; Pred. No. 3.2e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
|||:|  
Db 593 NTGLFNL 599

RESULT 14  
US-09-079-030-215  
; Sequence 215, Application US/09079030  
; Patent No. 6635623  
; GENERAL INFORMATION:  
; APPLICANT: Guevera, Jr., Juan G.  
; APPLICANT: Hoogveen, Ron C.  
; APPLICANT: Moore, Paul J.  
; TITLE OF INVENTION: LIPOPROTEINS AS NUCLEIC ACID DELIVERY  
; TITLE OF INVENTION: VECTORS FOR TRANSFECTION OF EUKARYOTIC CELLS  
; NUMBER OF SEQUENCES: 229  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Arnold, White & Durkee  
; STREET: P.O. Box 4433  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: USA  
; ZIP: 77210  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/079,030  
; FILING DATE: Concurrently Herewith  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McMillian, Nabeela R.  
; REGISTRATION NUMBER: P-43,363  
; REFERENCE/DOCKET NUMBER: ARAG:003  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 512/418-1000  
; TELEFAX: 512/474-7577  
; INFORMATION FOR SEQ ID NO: 215:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 773 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-09-079-030-215

Query Match 72.3%; Score 34; DB 2; Length 773;  
Best Local Similarity 85.7%; Pred. No. 3.4e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
|||  
Db 602 TMTGLYN 608

RESULT 15  
US-09-079-030-216  
Sequence 216, Application US/09079030  
Patent No. 6635623  
GENERAL INFORMATION:  
APPLICANT: Guevera, Jr., Juan G.  
APPLICANT: Hoogveen, Ron C.  
APPLICANT: Moore, Paul J.  
TITLE OF INVENTION: LIPOPROTEINS AS NUCLEIC ACID DELIVERY  
VECTORS FOR TRANSFECTION OF EUKARYOTIC CELLS  
NUMBER OF SEQUENCES: 229  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/079,030  
FILING DATE: Concurrently Herewith  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: McMillian, Nabeeia R.  
REGISTRATION NUMBER: P-43,363  
REFERENCE/DOCKET NUMBER: ARAG:003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 216:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 785 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-09-079-030-216

Query Match 72.3%; Score 34; DB 2; Length 785;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
|||  
Db 614 TMTGLYN 620

RESULT 16  
US-10-281-867-2  
Sequence 2, Application US/10281867  
Patent No. 6953778  
GENERAL INFORMATION:  
APPLICANT: Carroll, Joseph M.  
TITLE OF INVENTION: Methods and compositions for the  
diagnosis and treatment of hematologic disorders using 2777  
FILE REFERENCE: MP101-274PIRM  
CURRENT APPLICATION NUMBER: US/10/281,867  
CURRENT FILING DATE: 2002-10-28  
PRIOR FILING DATE: 2001-10-31  
NUMBER OF SEQ ID NOS: 3  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 836

TYPE: PRT  
ORGANISM: Homo sapien  
US-10-281-867-2

Query Match 72.3%; Score 34; DB 2; Length 836;  
Best Local Similarity 85.7%; Pred. No. 3.7e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|||  
Db 588 NTGLFNL 594

RESULT 17  
US-09-949-016-7193  
Sequence 7193, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 7193  
LENGTH: 245  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-7193

Query Match 70.2%; Score 33; DB 2; Length 245;  
Best Local Similarity 66.7%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LNTTGLYNL 9  
|||  
Db 52 LNTTGLYRI 60

RESULT 18  
US-09-543-681A-5138  
Sequence 5138, Application US/09543681A  
Patent No. 6605709  
GENERAL INFORMATION:  
APPLICANT: GARY BRETON  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS  
FILE REFERENCE: 2709.1002-001  
CURRENT APPLICATION NUMBER: US/09/543,681A  
CURRENT FILING DATE: 2000-04-05  
PRIOR APPLICATION NUMBER: US 60/128,706  
PRIOR FILING DATE: 1999-04-09  
NUMBER OF SEQ ID NOS: 8344  
SEQ ID NO 5138  
LENGTH: 263  
TYPE: PRT  
ORGANISM: Proteus mirabilis  
US-09-543-681A-5138

Query Match 70.2%; Score 33; DB 2; Length 263;  
Best Local Similarity 85.7%; Pred. No. 1.6e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|||

Db 113 NTGLYSL 119

RESULT 19  
US-08-249-112-3  
Sequence 3, Application US/08249112  
Patent No. 5527703  
GENERAL INFORMATION:  
APPLICANT: Gully, Doris P.  
APPLICANT: Arena, Joseph P.  
APPLICANT: Liu, Ken K.  
APPLICANT: Vasiliadis, Demetrios  
TITLE OF INVENTION: DNA ENCODING GLUTAMATE GATED CHLORIDE  
TITLE OF INVENTION: CHANNELS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wallen, John W.  
STREET: 126 E. Lincoln Ave., P.O. Box 2000  
CITY: Rahway  
STATE: New Jersey  
COUNTRY: U.S.A.  
ZIP: 07065  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/249,112  
FILING DATE: 25-MAY-1994  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Wallen, John W.  
REGISTRATION NUMBER: 35,403  
REFERENCE/DOCKET NUMBER: 19194  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (908) 594-3905  
TELEFAX: (908) 594-4720  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 510 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-249-112-3

Query Match 70.2%; Score 33; DB 1; Length 510;  
Best Local Similarity 62.5%; Pred. No. 3.4e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 LNTGLYN 8  
:|||||:  
Db 271 VNTGLYS 278

RESULT 20  
PCT-US95-06556-3  
Sequence 3, Application PC/TUS9506556  
GENERAL INFORMATION:  
APPLICANT: Gully, Doris P.  
APPLICANT: Arena, Joseph P.  
APPLICANT: Liu, Ken K.  
APPLICANT: Vasiliadis, Demetrios  
TITLE OF INVENTION: DNA ENCODING GLUTAMATE GATED CHLORIDE  
TITLE OF INVENTION: CHANNELS  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wallen, John W.  
STREET: 126 E. Lincoln Ave., P.O. Box 2000  
CITY: Rahway  
STATE: New Jersey  
COUNTRY: U.S.A.

ZIP: 07065  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/06556  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/249,112  
FILING DATE: 25-MAY-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Wallen, John W.  
REGISTRATION NUMBER: 35,403  
REFERENCE/DOCKET NUMBER: 19194  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (908) 594-3905  
TELEFAX: (908) 594-4720  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 510 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US95-06556-3

Query Match 70.2%; Score 33; DB 4; Length 510;  
Best Local Similarity 62.5%; Pred. No. 3.4e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 LNTGLYN 8  
:|||||:  
Db 271 VNTGLYS 278

RESULT 21  
US-09-270-767-48833  
Sequence 48833, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 48833  
LENGTH: 534  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-48833

Query Match 70.2%; Score 33; DB 2; Length 534;  
Best Local Similarity 85.7%; Pred. No. 3.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TWTGLYN 8  
:|||||:  
Db 122 TRTGLYN 128

RESULT 22  
US-08-841-483-2  
Sequence 2, Application US/08841483B  
Patent No. 5976875  
GENERAL INFORMATION:  
APPLICANT: Prescott, Steven M.

APPLICANT: Bunting, Michaeline  
APPLICANT: Tang, Wen  
TITLE OF INVENTION: Diacylglycerol Kinase Isoforms Epsilon and Zeta and  
TITLE OF INVENTION: Methods of Use Thereof  
FILE REFERENCE: 2037.2.1a  
CURRENT APPLICATION NUMBER: US/08/841,483B  
CURRENT FILING DATE: 1997-04-22  
EARLIER APPLICATION NUMBER: 60/016,210  
EARLIER FILING DATE: 1996-04-22  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 567  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-08-841-483-2

Query Match 70.2%; Score 33; DB 1; Length 567;  
Best Local Similarity 66.7%; Pred. No. 3.8e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LNTGLYNL 9  
Db 354 VTNGGYNL 362

RESULT 23  
US-09-382-911-2  
Sequence 2, Application US/09382911  
Patent No. 6221658  
GENERAL INFORMATION:  
APPLICANT: Prescott, Steven W.  
APPLICANT: Bunting, Michaeline  
APPLICANT: Tang, Wen  
TITLE OF INVENTION: Diacylglycerol Kinase Isoforms Epsilon and Zeta and  
TITLE OF INVENTION: Methods of Use Thereof  
FILE REFERENCE: 2037.2.1a  
CURRENT APPLICATION NUMBER: US/09/382,911  
CURRENT FILING DATE: 1999-08-25  
PRIOR APPLICATION NUMBER: 08/841,483  
PRIOR FILING DATE: 1997-04-22  
PRIOR APPLICATION NUMBER: 60/016,210  
PRIOR FILING DATE: 1996-04-22  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 567  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-382-911-2

Query Match 70.2%; Score 33; DB 2; Length 567;  
Best Local Similarity 66.7%; Pred. No. 3.8e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LNTGLYNL 9  
Db 354 VTNGGYNL 362

RESULT 24  
US-09-949-016-6844  
Sequence 6844, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CLO01307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 6844  
LENGTH: 632  
TYPE: PRT  
ORGANISM: Human  
US-09-949-016-6844

Query Match 70.2%; Score 33; DB 2; Length 632;  
Best Local Similarity 66.7%; Pred. No. 4.2e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LNTGLYNL 9  
Db 378 LITGLYRI 386

RESULT 25  
US-09-252-991A-27011  
Sequence 27011, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 27011  
LENGTH: 789  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-27011

Query Match 70.2%; Score 33; DB 2; Length 789;  
Best Local Similarity 85.7%; Pred. No. 5.4e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
Db 737 NAGLYNL 743

RESULT 26  
US-09-056-556-204  
Sequence 204, Application US/09056556  
Patent No. 6350456  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Dillon, David C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND  
NUMBER OF SEQUENCES: 241  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED AND BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
City: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/056,556  
FILING DATE: 07-APR-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.457  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 204:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-09-056-556-204

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 27  
US-09-072-596-199  
Sequence 199, Application US/09072596  
Patent No. 6458366  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Dillon, Davin C.  
APPLICANT: Campos-Neto, Antonio  
APPLICANT: Houghton, Raymond  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Twardzik, Daniel R.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF  
NUMBER OF SEQUENCES: 350  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/072,596  
FILING DATE: 05-MAY-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.417C9  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 199:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids

TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-09-072-596-199

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 28  
US-09-477-135A-131  
Sequence 131, Application US/09477135A  
Patent No. 6572865  
GENERAL INFORMATION:  
APPLICANT: Nano, Francis  
TITLE OF INVENTION: Mycobacterium Tuberculosis DNA Sequences Encoding  
FILE REFERENCE: 52888  
CURRENT APPLICATION NUMBER: US/09/477,135A  
PRIOR FILING DATE: 2000-01-03  
PRIOR APPLICATION NUMBER: 08990823  
PRIOR FILING DATE: 1997-12-15  
PRIOR APPLICATION NUMBER: US 96/10375  
PRIOR FILING DATE: 1996-06-14  
PRIOR APPLICATION NUMBER: 60/000,254  
PRIOR FILING DATE: 1995-06-15  
NUMBER OF SEQ ID NOS: 169  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 131  
LENGTH: 943  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis  
US-09-477-135A-131

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 753 TMTGSYN 759

RESULT 29  
US-09-072-967-204  
Sequence 204, Application US/09072967  
Patent No. 6592877  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Dillon, Davin C.  
APPLICANT: Campos-Neto, Antonio  
APPLICANT: Houghton, Raymond  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Twardzik, Daniel R.  
APPLICANT: Lodes, Michael J.  
APPLICANT: Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY  
NUMBER OF SEQUENCES: 355  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/072.967  
FILING DATE: 05-MAY-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.411C9  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 204:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-09-072-967-204

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 30  
US-10-193-002-199  
Sequence 199, Application US/10193002  
Patent No. 6949246  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
Skelky, Yasir A.W.  
Dillon, Davin C.  
Campos-Neto, Antonio  
Houghton, Raymond  
Vedvick, Thomas S.  
Twardzik, Daniel R.  
Lodes, Michael J.  
Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF  
TUBERCULOSIS  
NUMBER OF SEQUENCES: 350  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/193.002  
FILING DATE: 10-Jul-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/072.596  
FILING DATE: 05-MAY-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.417C9  
TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 199:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 199:  
US-10-193-002-199

Query Match 70.2%; Score 33; DB 2; Length 943;  
Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 646 TMTGSYN 652

RESULT 31  
US-10-084-843-204  
Sequence 204, Application US/10084843  
Patent No. 6962710  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
Skelky, Yasir A.W.  
Dillon, Davin C.  
Campos-Neto, Antonio  
Houghton, Raymond  
Vedvick, Thomas S.  
Twardzik, Daniel R.  
Lodes, Michael J.  
Hendrickson, Ronald C.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY  
AND DIAGNOSIS OF TUBERCULOSIS  
NUMBER OF SEQUENCES: 355  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/084.843  
FILING DATE: 25-Feb-2002  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/072.967  
FILING DATE: 05-MAY-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.411C9  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 204:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 204:  
US-10-084-843-204

Query Match 70.2%; Score 33; DB 2; Length 943;



Best Local Similarity 85.7%; Pred. No. 6.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 LNTGLYN 8  
|||  
646 LNTGSYN 652

RESULT 32  
US-09-252-991A-23237  
; Sequence 23237, Application US/09252991A

; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 23237  
; LENGTH: 1233  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-23237

Query Match 70.2%; Score 33; DB 2; Length 1233;  
Best Local Similarity 75.0%; Pred. No. 8.8e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LNTGLYN 8  
|||  
214 LNTDGLYS 221

RESULT 33  
US-08-993-359-32

; Sequence 32, Application US/08993359A  
; Patent No. 6039942  
; GENERAL INFORMATION:  
; APPLICANT: Laessen, Soren F.  
; APPLICANT: Bech, Lisbeth  
; APPLICANT: Ohmann, Anders  
; APPLICANT: Breinholt, Jens  
; APPLICANT: Fuglsang, Claus C.  
; APPLICANT: Ostergaard, Peter R.  
; TITLE OF INVENTION: Phytase Polypeptides  
; FILE REFERENCE: 5383.500-US  
; CURRENT APPLICATION NUMBER: US/08/993,359A  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 1480/96  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 1481/96  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 0301/97  
; PRIOR FILING DATE: 1997-03-18  
; PRIOR APPLICATION NUMBER: 0529/97  
; PRIOR FILING DATE: 1997-05-07  
; PRIOR APPLICATION NUMBER: 1388/97  
; PRIOR FILING DATE: 1997-12-01  
; PRIOR APPLICATION NUMBER: 60/046,082  
; PRIOR FILING DATE: 1997-05-09  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 92  
; TYPE: PRT  
; ORGANISM: Schizophyllum sp.  
US-08-993-359-32

Query Match 68.1%; Score 32; DB 2; Length 92;  
Best Local Similarity 66.7%; Pred. No. 80;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LNTGLYNL 9  
|||  
63 LTTNVTNL 71

RESULT 34  
US-09-482-558A-32  
; Sequence 32, Application US/09482558A

; Patent No. 6569659  
; GENERAL INFORMATION:  
; APPLICANT: Laessen, Soren F.  
; APPLICANT: Bech, Lisbeth  
; APPLICANT: Ohmann, Anders  
; APPLICANT: Breinholt, Jens  
; APPLICANT: Fuglsang, Claus C.  
; APPLICANT: Ostergaard, Peter R.  
; TITLE OF INVENTION: Phytase Polypeptides  
; FILE REFERENCE: 5383.500-US  
; CURRENT APPLICATION NUMBER: US/09/482,558A  
; PRIOR FILING DATE: 2000-01-13  
; PRIOR APPLICATION NUMBER: US/08/993,359  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 1480/96  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 1481/96  
; PRIOR FILING DATE: 1996-12-20  
; PRIOR APPLICATION NUMBER: 0301/97  
; PRIOR FILING DATE: 1997-03-18  
; PRIOR APPLICATION NUMBER: 0529/97  
; PRIOR FILING DATE: 1997-05-07  
; PRIOR APPLICATION NUMBER: 1388/97  
; PRIOR FILING DATE: 1997-12-01  
; PRIOR APPLICATION NUMBER: 60/046,082  
; PRIOR FILING DATE: 1997-05-09  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 92  
; TYPE: PRT  
; ORGANISM: Schizophyllum sp.  
US-09-482-558A-32

Query Match 68.1%; Score 32; DB 2; Length 92;  
Best Local Similarity 66.7%; Pred. No. 80;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LNTGLYNL 9  
|||  
63 LTTNVTNL 71

RESULT 35  
US-09-270-767-38858  
; Sequence 38858, Application US/09270767

; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; PRIOR FILING DATE: 1999-03-17  
; PRIOR APPLICATION NUMBER: 62517  
; PRIOR FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 38858  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 38858  
; LENGTH: 157  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:

OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-38858

Query Match 68.1%; Score 32; DB 2; Length 157;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|||:|  
Db 105 LTNLPHNL 113

RESULT 36  
US-09-270-767-54075

Sequence 54075, Application US/09270767  
Patent No. 6703491

GENERAL INFORMATION:

APPLICANT: Homburger et al.

TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

FILE REFERENCE: File Reference: 7326-094

CURRENT APPLICATION NUMBER: US/09/270,767

CURRENT FILING DATE: 1999-03-17

NUMBER OF SEQ ID NOS: 62517

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 54075

LENGTH: 157

TYPE: PRT

ORGANISM: Drosophila melanogaster

FEATURE:

OTHER INFORMATION: Xaa means any amino acid

US-09-270-767-54075

Query Match 68.1%; Score 32; DB 2; Length 157;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|||:|  
Db 105 LTNLPHNL 113

RESULT 37  
US-09-902-540-10343

Sequence 10343, Application US/09902540  
Patent No. 6833447

GENERAL INFORMATION:

APPLICANT: Goldman, Barry S.

APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.

APPLICANT: Wiegand, Roger C.

TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

FILE REFERENCE: 38-10(15849)B

CURRENT APPLICATION NUMBER: US/09/902,540

CURRENT FILING DATE: 2001-07-10

PRIOR APPLICATION NUMBER: 60/217,883

PRIOR FILING DATE: 2000-07-10

NUMBER OF SEQ ID NOS: 16825

SEQ ID NO 10343

LENGTH: 194

TYPE: PRT

ORGANISM: Myxococcus xanthus

US-09-902-540-10343

Query Match 68.1%; Score 32; DB 2; Length 194;  
Best Local Similarity 66.7%; Pred. No. 1.8e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|||:|  
Db 135 LTNGLYSL 143

RESULT 38

US-08-549-515-7  
Sequence 7, Application US/08549515  
Patent No. 6054123

GENERAL INFORMATION:

APPLICANT: Loosmore, Sheena M

APPLICANT: Klein, Michel H

TITLE OF INVENTION: Haemophilus influenzae

TITLE OF INVENTION: dimethylsulphoxide Reductase Enzyme

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: Sim & McBurney

STREET: Suite 701, 330 University Avenue

CITY: Toronto

STATE: Ontario

COUNTRY: Canada

ZIP: M5G 1R7

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/549,515

FILING DATE: 27-OCT-1995

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Stewart, Michael I

REGISTRATION NUMBER: 24,973

REFERENCE/DOCKET NUMBER: 1038-522

TELECOMMUNICATION INFORMATION:

TELEPHONE: (416) 595-1155

TELEFAX: (416) 595-1163

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 279 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-549-515-7

Query Match 68.1%; Score 32; DB 2; Length 279;  
Best Local Similarity 85.7%; Pred. No. 2.7e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
|||:|  
Db 2 NTGLYEL 8

RESULT 39  
US-10-101-464A-717

Sequence 717, Application US/10101464A  
Patent No. 6768041

GENERAL INFORMATION:

APPLICANT: Strabala, Timothy

APPLICANT: Nieuwenhuizen, Nicolaas

APPLICANT: Higgins, Colleen M.

TITLE OF INVENTION: Compositions isolated from Plant Cells

TITLE OF INVENTION: and their Use in the Modification of Plant Cell Signaling

FILE REFERENCE: 11000.1020c2

CURRENT APPLICATION NUMBER: US/10/101,464A

CURRENT FILING DATE: 2002-03-18

PRIOR APPLICATION NUMBER: 09/704,302

PRIOR FILING DATE: 2000-11-01

PRIOR APPLICATION NUMBER: 09/228,986

PRIOR FILING DATE: 1999-01-12

PRIOR APPLICATION NUMBER: 60/162,866

PRIOR FILING DATE: 1999-11-01

PRIOR APPLICATION NUMBER: PCT/US00/00724

PRIOR FILING DATE: 2000-01-11

NUMBER OF SEQ ID NOS: 989

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 717

LENGTH: 304  
TYPE: PRT  
ORGANISM: Pinus radiata  
US-10-101-464A-717

Query Match 68.1%; Score 32; DB 2; Length 304;  
Best Local Similarity 100.0%; Pred. No. 3e+02;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TGLYNL 9  
DB 135 TGLYNL 140

RESULT 40  
US-09-015-296-3  
Sequence 3, Application US/09015296  
Patent No. 6103471  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Corley, Neil C.  
TITLE OF INVENTION: HUMAN BETA-ALANINE-PYRUVATE  
TITLE OF INVENTION: AMINOTRANSFERASE  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/015,296  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0467 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 512 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 1944136  
US-09-015-296-3  
Query Match 68.1%; Score 32; DB 2; Length 512;  
Best Local Similarity 55.6%; Pred. No. 5.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
QY 1 LTNVGLYNL 9  
DB 205 LTNVGLYK 213  
RESULT 41

US-09-593-722-3  
Sequence 3, Application US/09593722  
Patent No. 6416755  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Corley, Neil C.  
TITLE OF INVENTION: HUMAN BETA-ALANINE-PYRUVATE  
TITLE OF INVENTION: AMINOTRANSFERASE  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/593,722  
FILING DATE: 13-Jun-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/015,296  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0467 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 512 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 1944136  
US-09-593-722-3  
Query Match 68.1%; Score 32; DB 2; Length 512;  
Best Local Similarity 55.6%; Pred. No. 5.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
QY 1 LTNVGLYNL 9  
DB 205 LTNVGLYK 213  
RESULT 42  
US-09-248-796A-19403  
Sequence 3, Application US/09248796A  
Patent No. 6747137  
GENERAL INFORMATION:  
APPLICANT: Keith Weinstein et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 107196.132  
CURRENT APPLICATION NUMBER: US/09/248,796A  
CURRENT FILING DATE: 1999-02-12  
PRIOR APPLICATION NUMBER: US 60/074,725  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: US 60/096,409  
PRIOR FILING DATE: 1998-08-13

NUMBER OF SEQ ID NOS: 28208  
SEQ ID NO 19403  
LENGTH: 631  
TYPE: PRT  
ORGANISM: Candida albicans  
US-09-248-796A-19403

Query Match 68.1%; Score 32; DB 2; Length 631;  
Best Local Similarity 66.7%; Pred. No. 6.5e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 NTGLYNL 9  
Db 263 LTDSGLYRL 271

RESULT 43  
US-09-747-259-18  
Sequence 18, Application US/09747259  
Patent No. 6569645  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Chen, Jian  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Li, Hanzhong  
APPLICANT: Hillan, Kenneth  
APPLICANT: Tumas, Daniel  
APPLICANT: Vanlookeren, Menno  
APPLICANT: Vandlen, Richard  
APPLICANT: Watanabe, Colin  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William  
APPLICANT: Yansura, Daniel  
TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
FILE REFERENCE: P1381R1C1P1(US)  
CURRENT APPLICATION NUMBER: US/09/747,259  
CURRENT FILING DATE: 2000-12-20  
PRIOR APPLICATION NUMBER: US 09/311,832  
PRIOR FILING DATE: 1999-05-14  
PRIOR APPLICATION NUMBER: US 60/172,096  
PRIOR FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: PCT/US99/31274  
PRIOR FILING DATE: 1999-12-30  
PRIOR APPLICATION NUMBER: US 60/175,481  
PRIOR FILING DATE: 2000-01-11  
PRIOR APPLICATION NUMBER: PCT/US00/04341  
PRIOR FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: PCT/US00/05841  
PRIOR FILING DATE: 2000-03-02  
PRIOR APPLICATION NUMBER: US 60/191,007  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: PCT/US00/07532  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: PCT/US00/15264  
PRIOR FILING DATE: 2000-06-02  
PRIOR APPLICATION NUMBER: US 60/213,087  
PRIOR FILING DATE: 2000-06-22  
PRIOR APPLICATION NUMBER: US 09/644,848  
PRIOR FILING DATE: 2000-08-22  
PRIOR APPLICATION NUMBER: PCT/US00/23328  
PRIOR FILING DATE: 2000-08-24  
PRIOR APPLICATION NUMBER: US 60/242,837  
PRIOR FILING DATE: 2000-10-24  
PRIOR APPLICATION NUMBER: PCT/US00/30873  
PRIOR FILING DATE: 2000-11-10  
PRIOR APPLICATION NUMBER: US 60/253,646  
PRIOR FILING DATE: 2000-11-28  
PRIOR APPLICATION NUMBER: PCT/US00/32678

PRIOR FILING DATE: 2000-12-01  
NUMBER OF SEQ ID NOS: 39  
SEQ ID NO 18  
LENGTH: 728  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-747-259-18

Query Match 68.1%; Score 32; DB 2; Length 728;  
Best Local Similarity 71.4%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGLYNL 9  
Db 26 NSGLINI 32

RESULT 44  
US-09-816-744-18  
Sequence 18, Application US/09816744  
Patent No. 6579520  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Li, Hanzhong  
APPLICANT: Hillan, Kenneth  
APPLICANT: Tumas, Daniel  
APPLICANT: Vanlookeren, Menno  
APPLICANT: Vandlen, Richard  
APPLICANT: Watanabe, Colin  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William  
APPLICANT: Yansura, Daniel  
TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
FILE REFERENCE: P1381R1C1P2(US)  
CURRENT APPLICATION NUMBER: US/09/816,744  
CURRENT FILING DATE: 2001-03-22  
Prior application data removed - consult PALM or file wrapper  
NUMBER OF SEQ ID NOS: 39  
SEQ ID NO 18  
LENGTH: 728  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-816-744-18

Query Match 68.1%; Score 32; DB 2; Length 728;  
Best Local Similarity 71.4%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGLYNL 9  
Db 26 NSGLINI 32

RESULT 45  
US-10-104-047-3399  
Sequence 3399, Application US/10104047  
Patent No. 6943241  
GENERAL INFORMATION:  
APPLICANT: HELIX RESEARCH INSTITUTE  
TITLE OF INVENTION: NO. 6943241el full length cDNA  
FILE REFERENCE: H1-A0105  
CURRENT APPLICATION NUMBER: US/10/104,047  
CURRENT FILING DATE: 2002-03-25  
PRIOR APPLICATION NUMBER:  
PRIOR FILING DATE:  
NUMBER OF SEQ ID NOS: 4096  
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 3399  
LENGTH: 728  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-104-047-3399

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Best Local Similarity 71.4%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGGLYNL 9  
Db 39 NSGLYNI 45

RESULT 46  
US-09-661-322A-30  
Sequence 30, Application US/09661322A  
Patent No. 6593293  
GENERAL INFORMATION:  
APPLICANT: Baum, James A.  
APPLICANT: Chu, Chih-Rei  
APPLICANT: Donovan, William P.  
APPLICANT: Gilmer, Amy J.  
APPLICANT: Rupar, Mark J.  
TITLE OF INVENTION: Lepidopteran-Active Bacillus thuringiensis Delta-Endotoxin Compos  
TITLE OF INVENTION: and Methods of Use  
FILE REFERENCE: MECO201  
CURRENT APPLICATION NUMBER: US/09/661,322A  
CURRENT FILING DATE: 2000-09-13  
NUMBER OF SEQ ID NOS: 63  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 30  
LENGTH: 802  
TYPE: PRT  
ORGANISM: Bacillus thuringiensis  
US-09-661-322A-30

Query Match 68.1%; Score 32; DB 2; Length 802;  
Best Local Similarity 85.7%; Pred. No. 8.5e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TNTGLYN 8  
Db 213 TTMGLYN 219

RESULT 47  
US-09-733-643B-16  
Sequence 16, Application US/09733643B  
Patent No. 6734344  
GENERAL INFORMATION:  
APPLICANT: Laroche, Andre J.  
APPLICANT: Huang, Timothy Y  
APPLICANT: Lu, Zhen-Xiang  
APPLICANT: Frick, Michele M.  
APPLICANT: Huang, Hung Chang  
APPLICANT: Cheng, Kuo Joan  
TITLE OF INVENTION: Coniochrylium minitans beta-(1,3) exoglucanase gene  
TITLE OF INVENTION: cdeg1  
FILE REFERENCE: 24014US1  
CURRENT APPLICATION NUMBER: US/09/733,643B  
CURRENT FILING DATE: 2000-12-08  
PRIOR APPLICATION NUMBER: US 60/170,168  
PRIOR FILING DATE: 1999-12-12  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 16  
LENGTH: 1032  
TYPE: PRT  
ORGANISM: Trichoderma harzianum  
FEATURE:  
OTHER INFORMATION: Trexo

US-09-733-643B-16

Query Match 68.1%; Score 32; DB 2; Length 1032;  
Best Local Similarity 66.7%; Pred. No. 1.1e+03;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTNGLYNL 9  
Db 738 LTNINYNL 746

RESULT 48  
US-09-001-982-10  
Sequence 10, Application US/09001982  
Patent No. 6204246  
GENERAL INFORMATION:  
APPLICANT: Bosch, Hendrick J.  
APPLICANT: Stiekema, Willem J.  
TITLE OF INVENTION: Hybrid Toxin  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. 6204246artis Corporation  
STREET: 3054 Cornwallis Road  
CITY: Research Triangle Park  
STATE: NC  
COUNTRY: USA  
ZIP: 27709  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
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APPLICATION NUMBER: US/09/001,982  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/602,737  
FILING DATE: 21-FEB-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Meigs, J. Timothy  
REGISTRATION NUMBER: 38,241  
REFERENCE/DOCKET NUMBER: 130-4080/PCT/CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 919-541-8587  
TELEFAX: 919-541-8689  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1156 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-001-982-10

Query Match 68.1%; Score 32; DB 2; Length 1156;  
Best Local Similarity 85.7%; Pred. No. 1.3e+03;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TNTGLYN 8  
Db 213 TTMGLYN 219

RESULT 49  
US-09-002-285-70  
Sequence 70, Application US/09002285  
Patent No. 6369213  
GENERAL INFORMATION:  
APPLICANT: Schepf, H. Ernest  
APPLICANT: Wicker, Carol  
APPLICANT: Narva, Kenneth E.  
APPLICANT: Walz, Michelle  
APPLICANT: Stockhoff, Brian

```

; APPLICANT: Muller-Cohn, Judy
; TITLE OF INVENTION: Toxins Active Against Peets
; NUMBER OF SEQUENCES: 105
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: Florida
; COUNTRY: USA
; ZIP: 32606
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/002,285
; FILING DATE:
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; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/886,615
; FILING DATE: 1-JUL-1997
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/674,002
; FILING DATE: 1-JUL-1996
;
; APPLICATION NUMBER: US 08/674,002
; FILING DATE: 1-JUL-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sanders, Jay M.
; REGISTRATION NUMBER: 39,355
; REFERENCE/DOCKET NUMBER: MA-701C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (352) 375-8100
; TELEFAX: (352) 372-5800
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1156 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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; US-09-002-285-70
;
Query Match          68.1%; Score 32; DB 2; Length 1156;
Best Local Similarity 85.7%; Pred. No. 1,3e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      2 TMTGLYN 8
Db      213 TMTGLYN 219
;
RESULT 50
US-09-589-477-70
; Sequence 70, Application US/09589477
; Patent No. 6570005
; GENERAL INFORMATION:
; APPLICANT: Schenck, H. Ernest
; APPLICANT: Wicker, Carol
; APPLICANT: Nayva, Kenneth E.
; APPLICANT: Walz, Michelle
; APPLICANT: Stockhoff, Brian
; TITLE OF INVENTION: Toxins Active Against Peets
; NUMBER OF SEQUENCES: 105
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
; STREET: 2421 N.W. 41st Street, Suite A-1
; CITY: Gainesville
; STATE: Florida
; COUNTRY: USA
; ZIP: 32606
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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; SOFTWARE: PatentIn
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/589,477
; FILING DATE:
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; PRIORITY APPLICATION DATA:
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; FILING DATE: 1-JUL-1997
; CLASSIFICATION:
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; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/674,002
; FILING DATE: 1-JUL-1996
; CLASSIFICATION:
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Sanders, Jay M.
; REGISTRATION NUMBER: 39,355
; REFERENCE/DOCKET NUMBER: MA-701C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (352) 375-8100
; TELEFAX: (352) 372-5800
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1156 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
; US-09-589-477-70
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Query Match          68.1%; Score 32; DB 2; Length 1156;
Best Local Similarity 85.7%; Pred. No. 1,3e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY      2 TMTGLYN 8
Db      213 TMTGLYN 219

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Job time : 26.9 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds  
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66.793 Million cell updates/sec

Title: US-08-170-344-29  
Perfect score: 47  
Sequence: 1 LNTGTGLYNL 9

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_Main:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	47	100.0	27	US-10-751-845-153	Sequence 153, App
5	47	100.0	119	US-10-751-845-159	Sequence 159, App
6	47	100.0	158	US-10-800-023-27	Sequence 27, App1
7	47	100.0	158	US-11-021-949-28	Sequence 28, App1
8	47	100.0	172	US-10-472-724-6	Sequence 6, App1
9	47	100.0	236	US-10-751-845-157	Sequence 157, App
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11	47	100.0	261	US-10-751-845-160	Sequence 160, App
12	47	100.0	278	US-10-000-903-21	Sequence 21, App1
13	47	100.0	278	US-10-899-771-21	Sequence 21, App1
14	47	100.0	383	US-10-000-903-23	Sequence 23, App1
15	47	100.0	383	US-10-899-771-23	Sequence 23, App1
16	38	80.9	12	US-10-356-257-95	Sequence 95, App1
17	37	78.7	158	US-11-021-949-29	Sequence 29, App1
18	37	78.7	158	US-11-021-949-30	Sequence 29, App1
19	37	78.7	158	US-11-021-949-361	Sequence 361, App
20	37	78.7	173	US-10-767-701-62514	Sequence 62514, A
21	37	78.7	289	US-10-424-599-165644	Sequence 165644, A
22	37	78.7	523	US-10-437-963-151032	Sequence 151032, A
23	37	78.7	534	US-10-425-115-343736	Sequence 343736, A
24	35	74.5	47	US-10-437-963-146238	Sequence 146238, A
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53	72.3	442	4	US-10-016-768-8
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74	70.2	570	3	US-09-813-790-427
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78	70.2	632	5	US-10-287-436A-408
79	70.2	632	5	US-10-287-436A-1106
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81	70.2	740	4	US-10-424-599-271922
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84	70.2	893	4	US-10-282-122A-74450
85	70.2	943	3	US-09-996-634-131
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92	70.2	1211	6	US-11-082-005-199
93	70.2	1211	4	US-10-282-122A-66630
94	70.2	3300	4	US-10-282-122A-64369
95	66.1	11	5	US-10-946-647-798
96	66.1	72	4	US-10-425-115-226830
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98	66.1	116	4	US-10-424-599-148205
99	66.1	142	4	US-10-424-599-268054
100	66.1	142	4	US-10-437-963-175970

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Sequence 197705, A
Sequence 67463, A
Sequence 62548, A
Sequence 64364, A
Sequence 19, App1
Sequence 20, App1
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Sequence 54, App1
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103	32	68.1	219	5	US-10-474-960A-113	Sequence 113, App	176	31	66.0	124	4	US-10-394-575-61	Sequence 61, Appl
104	32	68.1	249	4	US-10-369-493-17212	Sequence 17212, A	177	31	66.0	135	4	US-10-425-115-353099	Sequence 353099,
105	32	68.1	251	5	US-10-501-282-4104	Sequence 4104, Ap	178	31	66.0	162	4	US-10-425-115-366539	Sequence 366539,
106	32	68.1	296	4	US-10-616-788-19	Sequence 19, Appl	179	31	66.0	174	5	US-10-220-335-589	Sequence 589, App
107	32	68.1	299	5	US-10-501-282-4106	Sequence 4106, Ap	180	31	66.0	186	4	US-10-379-616-2	Sequence 2, Appl
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109	32	68.1	304	5	US-10-864-252-717	Sequence 717, App	182	31	66.0	223	3	US-09-754-608-4	Sequence 4, Appl
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113	32	68.1	385	4	US-10-282-122A-71949	Sequence 71949, A	186	31	66.0	295	3	US-09-969-680A-31	Sequence 31, Appl
114	32	68.1	508	4	US-10-437-963-149456	Sequence 149456,	187	31	66.0	295	6	US-11-048-692-31	Sequence 31, Appl
115	32	68.1	512	4	US-10-159-924-3	Sequence 3, Appl	188	31	66.0	307	4	US-10-724-972A-6098	Sequence 6098, Ap
116	32	68.1	513	3	US-09-843-457-2	Sequence 2, Appl	189	31	66.0	312	4	US-10-369-493-8306	Sequence 8306, Ap
117	32	68.1	514	4	US-10-343-593-13	Sequence 13, Appl	190	31	66.0	333	5	US-10-831-070-128	Sequence 128, App
118	32	68.1	534	4	US-10-382-248-38	Sequence 28, Appl	191	31	66.0	353	4	US-10-369-493-3352	Sequence 3352, Ap
119	32	68.1	554	4	US-10-343-348-16	Sequence 16, Appl	192	31	66.0	360	4	US-10-437-963-169721	Sequence 169721,
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121	32	68.1	570	4	US-10-292-798-1710	Sequence 1710, Ap	194	31	66.0	373	4	US-10-425-114-38616	Sequence 38616, A
122	32	68.1	585	5	US-10-946-647-1409	Sequence 1409, Ap	195	31	66.0	401	4	US-10-369-493-8917	Sequence 8917, Ap
123	32	68.1	728	3	US-09-874-503-18	Sequence 18, Appl	196	31	66.0	419	3	US-09-754-608-2	Sequence 2, Appl
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125	32	68.1	728	3	US-09-747-259-18	Sequence 18, Appl	198	31	66.0	419	4	US-10-282-122A-74113	Sequence 74113, A
126	32	68.1	728	3	US-09-908-827-18	Sequence 18, Appl	199	31	66.0	419	5	US-10-472-928-3426	Sequence 3426, Ap
127	32	68.1	728	4	US-10-000-157-18	Sequence 18, Appl	200	31	66.0	440	5	US-10-617-320-5132	Sequence 5132, Ap
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132	32	68.1	728	4	US-10-458-442-18	Sequence 18, Appl	205	31	66.0	638	4	US-10-437-963-183965	Sequence 183965,
133	32	68.1	728	4	US-10-104-047-3399	Sequence 3399, Ap	206	31	66.0	654	4	US-10-369-493-5059	Sequence 5059, Ap
134	32	68.1	728	3	US-10-408-385-18	Sequence 18, Appl	207	31	66.0	654	4	US-10-282-122A-43556	Sequence 43556, A
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136	32	68.1	738	3	US-09-863-818A-10	Sequence 10, Appl	209	31	66.0	744	4	US-10-369-493-1782	Sequence 1782, Ap
137	32	68.1	738	4	US-10-216-156-2	Sequence 2, Appl	210	31	66.0	770	4	US-10-437-963-181869	Sequence 181869,
138	32	68.1	738	4	US-10-616-788-2	Sequence 2, Appl	211	31	66.0	811	5	US-10-739-930-5643	Sequence 5643, Ap
139	32	68.1	738	5	US-10-749-144-10	Sequence 10, Appl	212	31	66.0	871	4	US-10-437-963-190951	Sequence 190951,
140	32	68.1	739	3	US-09-912-157-8	Sequence 8, Appl	213	31	66.0	948	4	US-10-308-448-15	Sequence 15, Appl
141	32	68.1	739	5	US-10-717-282-8	Sequence 8, Appl	214	31	66.0	948	5	US-10-334-998-295	Sequence 295, App
142	32	68.1	739	5	US-10-842-006-2	Sequence 2, Appl	215	31	66.0	1078	5	US-10-732-923-23286	Sequence 23286, A
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148	32	68.1	753	4	US-10-717-282-5	Sequence 5, Appl	221	31	66.0	1335	5	US-10-470-928A-278	Sequence 278, App
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152	32	68.1	996	2	US-08-910-386A-5	Sequence 5, Appl	225	31	66.0	1412	5	US-10-473-127-356	Sequence 356, App
153	32	68.1	1032	3	US-09-733-643-16	Sequence 16, Appl	226	31	66.0	1412	5	US-10-473-127-357	Sequence 357, App
154	32	68.1	1032	4	US-10-120-801-14	Sequence 6, Appl	227	31	66.0	1415	4	US-10-408-765A-2282	Sequence 2282, Ap
155	32	68.1	1065	4	US-10-437-963-161656	Sequence 161656,	228	31	66.0	1417	5	US-10-473-127-348	Sequence 348, App
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157	32	68.1	1108	4	US-10-380-727-17	Sequence 17, Appl	230	31	66.0	1420	4	US-10-379-616-4	Sequence 4, Appl
158	32	68.1	1121	4	US-10-768-158-34	Sequence 34, Appl	231	31	66.0	1420	5	US-10-473-127-349	Sequence 349, App
159	32	68.1	1126	4	US-09-892-635A-20	Sequence 20, Appl	232	31	66.0	1440	5	US-10-473-127-353	Sequence 353, App
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161	32	68.1	1156	4	US-10-099-285-70	Sequence 70, Appl	234	31	66.0	1440	4	US-10-418-027-1	Sequence 1, Appl
162	32	68.1	1156	6	US-11-018-615-12	Sequence 12, Appl	235	31	66.0	1444	5	US-10-473-127-347	Sequence 347, App
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252	30	63.8	54	US-10-424-599-206550	Sequence 206550, A	325	30	63.8	353	3	US-09-984-271-243	Sequence 243, App
253	30	63.8	56	US-09-864-761-19071	Sequence 407071, A	326	30	63.8	354	3	US-09-820-843A-21	Sequence 21, Appl
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265	30	63.8	120	US-10-425-115-250004	Sequence 250004, A	338	30	63.8	426	6	US-11-097-143-12255	Sequence 12255, A
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278	30	63.8	215	US-10-255-120-5	Sequence 5, Appl	351	30	63.8	464	4	US-10-424-599-192140	Sequence 192140, A
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285	30	63.8	243	US-09-798-029-36	Sequence 36, Appl	358	30	63.8	510	4	US-10-322-281-338	Sequence 338, App
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287	30	63.8	256	US-10-335-977-6612	Sequence 6612, Ap	360	30	63.8	512	4	US-10-263-220A-9	Sequence 9, Appl
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290	30	63.8	262	US-10-379-127-27	Sequence 27, Appl	363	30	63.8	529	4	US-10-398-570-3	Sequence 3, Appl
291	30	63.8	262	US-11-097-143-6177	Sequence 6177, Ap	364	30	63.8	541	4	US-10-091-007-2	Sequence 2, Appl
292	30	63.8	268	US-10-425-114-39807	Sequence 39807, A	365	30	63.8	546	4	US-09-984-276-159	Sequence 159, App
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294	30	63.8	277	US-10-156-761-8858	Sequence 8858, Ap	367	30	63.8	581	4	US-10-369-493-3188	Sequence 3188, App
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298	30	63.8	293	US-10-731-5525-2	Sequence 2, Appl	371	30	63.8	625	6	US-11-097-143-30960	Sequence 245, App
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308	30	63.8	311	US-10-017-161-398	Sequence 348, App	381	30	63.8	687	4	US-10-120-604-6	Sequence 73, Appl
309	30	63.8	311	US-10-292-798-348	Sequence 356, App	382	30	63.8	687	4	US-10-073-054-8	Sequence 8, Appl
310	30	63.8	311	US-10-292-798-356	Sequence 36, Appl	383	30	63.8	687	4	US-10-369-493-6591	Sequence 6591, Ap
311	30	63.8	311	US-10-041-615-36	Sequence 37, Appl	384	30	63.8	687	4	US-10-436-715-40	Sequence 40, Appl
312	30	63.8	311	US-10-041-615-37	Sequence 474, Appl	385	30	63.8	687	4	US-11-070-688-6	Sequence 6, Appl
313	30	63.8	311	US-10-343-650A-474	Sequence 474, Appl	386	30	63.8	693	3	US-09-978-225A-483	Sequence 483, App
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316	30	63.8	318	US-10-424-599-162399	Sequence 565399, A	389	30	63.8	693	3	US-09-999-832A-483	Sequence 483, App
317	30	63.8	328	US-10-425-114-56536	Sequence 9776, Ap	390	30	63.8	693	3	US-09-978-189-483	Sequence 483, App
318	30	63.8	328	US-10-156-761-9776	Sequence 11319, A	391	30	63.8	693	3	US-09-978-608A-483	Sequence 483, App
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394	30	63.8	693	3	US-09-978-191A-483	Sequence 483, App	467	30	63.8	693	4	US-10-127-829A-406	Sequence 406, App
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396	30	63.8	693	3	US-09-978-564A-483	Sequence 483, App	469	30	63.8	693	4	US-10-127-839A-406	Sequence 406, App
397	30	63.8	693	3	US-09-999-833A-483	Sequence 483, App	470	30	63.8	693	4	US-10-127-901A-406	Sequence 406, App
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400	30	63.8	693	3	US-09-918-585A-483	Sequence 483, App	473	30	63.8	693	4	US-10-131-818A-406	Sequence 406, App
401	30	63.8	693	3	US-09-999-834A-483	Sequence 483, App	474	30	63.8	693	4	US-10-131-823A-406	Sequence 406, App
402	30	63.8	693	3	US-09-978-423A-483	Sequence 483, App	475	30	63.8	693	4	US-10-131-824A-406	Sequence 406, App
403	30	63.8	693	3	US-09-978-193A-483	Sequence 483, App	476	30	63.8	693	4	US-10-131-830A-406	Sequence 406, App
404	30	63.8	693	3	US-09-999-830A-483	Sequence 483, App	477	30	63.8	693	4	US-10-131-837A-406	Sequence 406, App
405	30	63.8	693	3	US-09-978-757A-483	Sequence 483, App	478	30	63.8	693	4	US-10-137-872A-406	Sequence 406, App
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432	30	63.8	693	4	US-10-143-114-406	Sequence 406, App	505	30	63.8	693	4	US-10-125-930A-406	Sequence 406, App
433	30	63.8	693	4	US-10-230-163-134	Sequence 134, App	506	30	63.8	693	4	US-10-127-833A-406	Sequence 406, App
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443	30	63.8	693	4	US-10-167-749-483	Sequence 483, App	516	30	63.8	693	4	US-10-127-851A-406	Sequence 406, App
444	30	63.8	693	4	US-10-143-032-406	Sequence 406, App	517	30	63.8	693	4	US-10-128-684A-406	Sequence 406, App
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597	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	670	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
598	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	671	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
599	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	672	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
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601	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	674	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
602	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	675	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
603	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	676	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
604	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	677	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
605	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	678	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
606	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	679	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
607	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	680	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
608	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	681	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
609	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	682	30	63.8	693	4	US-10-227-876-134	Sequence 134, App
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611	30	63.8	693	4	US-10-131-825A-406	Sequence 406, App	684	30	63.8	693	4	US-10-227-876-134	Sequence 134, App

685	30	63.8	693	4	US-10-147-506-406	Sequence 406, App	758	30	63.8	693	4	US-10-145-822-406	Sequence 406, App
686	30	63.8	693	4	US-10-147-509-406	Sequence 406, App	759	30	63.8	693	4	US-10-145-824-406	Sequence 406, App
687	30	63.8	693	4	US-10-147-510-406	Sequence 406, App	760	30	63.8	693	4	US-10-145-827-406	Sequence 406, App
688	30	63.8	693	4	US-10-147-511-406	Sequence 406, App	761	30	63.8	693	4	US-10-145-869-406	Sequence 406, App
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690	30	63.8	693	4	US-10-152-397-406	Sequence 406, App	763	30	63.8	693	4	US-10-145-877-406	Sequence 406, App
691	30	63.8	693	4	US-10-153-586-406	Sequence 406, App	764	30	63.8	693	4	US-10-145-958-406	Sequence 406, App
692	30	63.8	693	4	US-10-158-786-406	Sequence 406, App	765	30	63.8	693	4	US-10-146-787-406	Sequence 406, App
693	30	63.8	693	4	US-10-143-031A-483	Sequence 406, App	766	30	63.8	693	4	US-10-146-790-406	Sequence 406, App
694	30	63.8	693	4	US-10-137-870-406	Sequence 406, App	767	30	63.8	693	4	US-10-146-793-406	Sequence 406, App
695	30	63.8	693	4	US-10-140-018-406	Sequence 406, App	768	30	63.8	693	4	US-10-147-485-406	Sequence 406, App
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701	30	63.8	693	4	US-10-158-783-406	Sequence 406, App	774	30	63.8	693	4	US-10-147-498-406	Sequence 406, App
702	30	63.8	693	4	US-10-140-274-406	Sequence 406, App	775	30	63.8	693	4	US-10-147-514-406	Sequence 406, App
703	30	63.8	693	4	US-10-143-030A-483	Sequence 483, App	776	30	63.8	693	4	US-10-147-524-406	Sequence 406, App
704	30	63.8	693	4	US-10-002-867A-483	Sequence 483, App	777	30	63.8	693	4	US-10-152-379-406	Sequence 406, App
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706	30	63.8	693	4	US-10-140-019-406	Sequence 406, App	779	30	63.8	693	4	US-10-152-406-406	Sequence 406, App
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715	30	63.8	693	4	US-10-142-418-406	Sequence 406, App	788	30	63.8	693	4	US-10-145-634-406	Sequence 406, App
716	30	63.8	693	4	US-10-142-420-406	Sequence 406, App	789	30	63.8	693	4	US-10-147-520-406	Sequence 406, App
717	30	63.8	693	4	US-10-142-422-406	Sequence 406, App	790	30	63.8	693	4	US-10-157-781-406	Sequence 406, App
718	30	63.8	693	4	US-10-142-427-406	Sequence 406, App	791	30	63.8	693	4	US-10-176-989-406	Sequence 2, App11
719	30	63.8	693	4	US-10-142-760-406	Sequence 406, App	792	30	63.8	693	4	US-10-328-544-2	Sequence 2, App11
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723	30	63.8	693	4	US-10-177-840A-406	Sequence 406, App	796	30	63.8	693	4	US-10-152-383-406	Sequence 406, App
724	30	63.8	693	4	US-10-142-424-406	Sequence 406, App	797	30	63.8	693	4	US-10-152-384-406	Sequence 406, App
725	30	63.8	693	4	US-10-142-761-406	Sequence 406, App	798	30	63.8	693	4	US-10-152-387-406	Sequence 406, App
726	30	63.8	693	4	US-10-142-763-406	Sequence 406, App	799	30	63.8	693	4	US-10-152-389-406	Sequence 406, App
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729	30	63.8	693	4	US-10-142-888-406	Sequence 406, App	802	30	63.8	693	4	US-10-153-756-406	Sequence 406, App
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733	30	63.8	693	4	US-10-144-992-406	Sequence 406, App	806	30	63.8	693	4	US-10-143-028A-483	Sequence 483, App
734	30	63.8	693	4	US-10-145-015-406	Sequence 406, App	807	30	63.8	693	4	US-10-143-029A-483	Sequence 483, App
735	30	63.8	693	4	US-10-145-090-406	Sequence 406, App	808	30	63.8	693	4	US-10-142-762-406	Sequence 406, App
736	30	63.8	693	4	US-10-145-091-406	Sequence 406, App	809	30	63.8	693	4	US-10-142-764-406	Sequence 406, App
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738	30	63.8	693	4	US-10-145-629-406	Sequence 406, App	811	30	63.8	693	4	US-10-145-089A-483	Sequence 483, App
739	30	63.8	693	4	US-10-145-630-406	Sequence 406, App	812	30	63.8	693	4	US-10-145-625-406	Sequence 406, App
740	30	63.8	693	4	US-10-145-747-406	Sequence 406, App	813	30	63.8	693	4	US-10-145-627-406	Sequence 406, App
741	30	63.8	693	4	US-10-145-752-406	Sequence 406, App	814	30	63.8	693	4	US-10-145-960-406	Sequence 406, App
742	30	63.8	693	4	US-10-145-754-406	Sequence 406, App	815	30	63.8	693	4	US-10-145-962-406	Sequence 406, App
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745	30	63.8	693	4	US-10-145-820-406	Sequence 406, App	818	30	63.8	693	4	US-10-147-496-406	Sequence 406, App
746	30	63.8	693	4	US-10-145-872-406	Sequence 406, App	819	30	63.8	693	4	US-10-147-505-406	Sequence 406, App
747	30	63.8	693	4	US-10-145-873-406	Sequence 406, App	820	30	63.8	693	4	US-10-147-516-406	Sequence 406, App
748	30	63.8	693	4	US-10-147-481-406	Sequence 406, App	821	30	63.8	693	4	US-10-152-398-406	Sequence 406, App
749	30	63.8	693	4	US-10-147-482-406	Sequence 406, App	822	30	63.8	693	4	US-10-139-980-406	Sequence 406, App
750	30	63.8	693	4	US-10-147-503-406	Sequence 406, App	823	30	63.8	693	4	US-10-165-067A-483	Sequence 483, App
751	30	63.8	693	4	US-10-147-522-406	Sequence 406, App	824	30	63.8	693	4	US-10-145-017A-483	Sequence 483, App
752	30	63.8	693	4	US-10-152-401-406	Sequence 406, App	825	30	63.8	693	4	US-10-145-750-406	Sequence 406, App
753	30	63.8	693	4	US-10-157-783-406	Sequence 406, App	826	30	63.8	693	4	US-10-152-373-406	Sequence 406, App
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755	30	63.8	693	4	US-10-158-462-406	Sequence 406, App	828	30	63.8	693	4	US-10-223-081-92	Sequence 92, App1
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833	30	63.8	693.4	US-10-219-068-134	Sequence 134, App	506	30	63.8	693.4	US-10-121-054-406	Sequence 406, App
834	30	63.8	693.4	US-10-219-069-134	Sequence 134, App	507	30	63.8	693.4	US-10-121-063-406	Sequence 406, App
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843	30	63.8	693.4	US-10-219-532-134	Sequence 134, App	516	30	63.8	693.4	US-10-017-084A-483	Sequence 483, App
844	30	63.8	693.4	US-10-219-533-134	Sequence 134, App	517	30	63.8	693.4	US-10-127-852A-406	Sequence 406, App
845	30	63.8	693.4	US-10-230-437-134	Sequence 134, App	518	30	63.8	693.4	US-10-127-900A-406	Sequence 406, App
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850	30	63.8	693.4	US-10-160-502A-483	Sequence 483, App	523	30	63.8	693.4	US-10-145-088A-483	Sequence 483, App
851	30	63.8	693.4	US-10-121-044-406	Sequence 406, App	524	30	63.8	693.4	US-10-145-192A-483	Sequence 483, App
852	30	63.8	693.4	US-10-121-055-406	Sequence 406, App	525	30	63.8	693.4	US-10-146-728-406	Sequence 406, App
853	30	63.8	693.4	US-10-121-057-406	Sequence 406, App	526	30	63.8	693.4	US-10-146-728-406	Sequence 406, App
854	30	63.8	693.4	US-10-121-058-406	Sequence 406, App	527	30	63.8	693.4	US-10-146-786-406	Sequence 406, App
855	30	63.8	693.4	US-10-121-059-406	Sequence 406, App	528	30	63.8	693.4	US-10-147-499-406	Sequence 406, App
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857	30	63.8	693.4	US-10-123-109-406	Sequence 406, App	530	30	63.8	693.4	US-10-157-798-406	Sequence 406, App
858	30	63.8	693.4	US-10-123-154-406	Sequence 406, App	531	30	63.8	693.4	US-10-157-984-483	Sequence 483, App
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861	30	63.8	693.4	US-10-124-814-406	Sequence 406, App	534	30	63.8	693.4	US-10-170-481A-483	Sequence 483, App
862	30	63.8	693.4	US-10-124-816-406	Sequence 406, App	535	30	63.8	693.4	US-10-172-039A-483	Sequence 483, App
863	30	63.8	693.4	US-10-124-820-406	Sequence 406, App	536	30	63.8	693.4	US-10-210-028-483	Sequence 483, App
864	30	63.8	693.4	US-10-125-704-406	Sequence 406, App	537	30	63.8	693.4	US-10-123-913-406	Sequence 406, App
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866	30	63.8	693.4	US-10-223-082-92	Sequence 92, App1	539	30	63.8	693.4	US-10-013-916A-483	Sequence 483, App
867	30	63.8	693.4	US-10-145-087A-483	Sequence 483, App	540	30	63.8	693.4	US-10-140-473-406	Sequence 406, App
868	30	63.8	693.4	US-10-017-086A-483	Sequence 483, App	541	30	63.8	693.4	US-10-140-806-406	Sequence 406, App
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873	30	63.8	693.4	US-10-152-371-406	Sequence 406, App	546	30	63.8	693.4	US-10-141-706-406	Sequence 406, App
874	30	63.8	693.4	US-10-152-374-406	Sequence 406, App	547	30	63.8	693.4	US-10-141-757-406	Sequence 406, App
875	30	63.8	693.4	US-10-152-375-406	Sequence 406, App	548	30	63.8	693.4	US-10-141-762-406	Sequence 406, App
876	30	63.8	693.4	US-10-152-377-406	Sequence 406, App	549	30	63.8	693.4	US-10-142-428-406	Sequence 406, App
877	30	63.8	693.4	US-10-152-386-406	Sequence 406, App	550	30	63.8	693.4	US-10-142-429-406	Sequence 406, App
878	30	63.8	693.4	US-10-152-391-406	Sequence 406, App	551	30	63.8	693.4	US-10-142-484-406	Sequence 406, App
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881	30	63.8	693.4	US-10-157-785-406	Sequence 406, App	554	30	63.8	693.4	US-10-143-117-406	Sequence 406, App
882	30	63.8	693.4	US-10-157-794-406	Sequence 406, App	555	30	63.8	693.4	US-10-144-956-406	Sequence 406, App
883	30	63.8	693.4	US-10-157-796-406	Sequence 406, App	556	30	63.8	693.4	US-10-144-958-406	Sequence 406, App
884	30	63.8	693.4	US-10-160-500-406	Sequence 406, App	557	30	63.8	693.4	US-10-144-958-406	Sequence 406, App
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886	30	63.8	693.4	US-10-164-829A-483	Sequence 483, App	559	30	63.8	693.4	US-10-145-753-406	Sequence 406, App
887	30	63.8	693.4	US-10-123-156-406	Sequence 406, App	560	30	63.8	693.4	US-10-145-871-406	Sequence 406, App
888	30	63.8	693.4	US-10-123-215-406	Sequence 406, App	561	30	63.8	693.4	US-10-146-794-406	Sequence 406, App
889	30	63.8	693.4	US-10-123-218-406	Sequence 406, App	562	30	63.8	693.4	US-10-146-794-406	Sequence 406, App
890	30	63.8	693.4	US-10-125-805-406	Sequence 406, App	563	30	63.8	693.4	US-10-147-499-406	Sequence 406, App
891	30	63.8	693.4	US-10-013-922A-483	Sequence 483, App	564	30	63.8	693.4	US-10-147-507-406	Sequence 406, App
892	30	63.8	693.4	US-10-020-445A-483	Sequence 483, App	565	30	63.8	693.4	US-10-147-535-406	Sequence 406, App
893	30	63.8	693.4	US-10-013-924A-483	Sequence 483, App	566	30	63.8	693.4	US-10-147-537-406	Sequence 406, App
894	30	63.8	693.4	US-10-013-924A-483	Sequence 483, App	567	30	63.8	693.4	US-10-152-376-406	Sequence 406, App
895	30	63.8	693.4	US-10-124-821-406	Sequence 406, App	568	30	63.8	693.4	US-10-152-381-406	Sequence 406, App
896	30	63.8	693.4	US-10-152-385-406	Sequence 406, App	569	30	63.8	693.4	US-10-152-381-406	Sequence 406, App
897	30	63.8	693.4	US-10-152-393-406	Sequence 406, App	570	30	63.8	693.4	US-10-153-855-406	Sequence 406, App
898	30	63.8	693.4	US-10-152-396-406	Sequence 406, App	571	30	63.8	693.4	US-10-157-800-406	Sequence 406, App
899	30	63.8	693.4	US-10-153-840-406	Sequence 406, App	572	30	63.8	693.4	US-10-157-801-406	Sequence 406, App
900	30	63.8	693.4	US-10-156-841-406	Sequence 406, App	573	30	63.8	693.4	US-10-157-802-406	Sequence 406, App
901	30	63.8	693.4	US-10-156-844-406	Sequence 406, App	574	30	63.8	693.4	US-10-158-784-406	Sequence 406, App
902	30	63.8	693.4	US-10-156-845-406	Sequence 406, App	575	30	63.8	693.4	US-10-158-784-406	Sequence 406, App
903	30	63.8	693.4	US-10-156-846-406	Sequence 406, App	576	30	63.8	693.4	US-10-158-789-406	Sequence 406, App

```
977 30 63.8 693 4 US-10-192-011-406 Sequence 406, App
978 30 63.8 693 4 US-10-139-963-406 Sequence 406, App
979 30 63.8 693 4 US-10-140-020-406 Sequence 406, App
980 30 63.8 693 4 US-10-140-023-406 Sequence 406, App
981 30 63.8 693 4 US-10-140-809-406 Sequence 406, App
982 30 63.8 693 4 US-10-140-865-406 Sequence 406, App
983 30 63.8 693 4 US-10-141-701-406 Sequence 406, App
984 30 63.8 693 4 US-10-141-754-406 Sequence 406, App
985 30 63.8 693 4 US-10-141-760-406 Sequence 406, App
986 30 63.8 693 4 US-10-142-425-406 Sequence 406, App
987 30 63.8 693 4 US-10-142-430-406 Sequence 406, App
988 30 63.8 693 4 US-10-143-113-406 Sequence 406, App
989 30 63.8 693 4 US-10-146-730-406 Sequence 406, App
990 30 63.8 693 4 US-10-146-792-406 Sequence 406, App
991 30 63.8 693 4 US-10-158-791-406 Sequence 406, App
992 30 63.8 693 4 US-10-143-026B-483 Sequence 483, App
993 30 63.8 693 4 US-10-156-843-406 Sequence 406, App
994 30 63.8 693 4 US-10-157-786-406 Sequence 406, App
995 30 63.8 693 4 US-10-013-918A-483 Sequence 483, App
996 30 63.8 693 4 US-10-162-521A-483 Sequence 483, App
997 30 63.8 693 4 US-10-152-405-406 Sequence 406, App
998 30 63.8 693 4 US-10-013-928A-483 Sequence 483, App
999 30 63.8 693 4 US-10-162-522A-483 Sequence 483, App
1000 30 63.8 693 4 US-10-013-923A-483 Sequence 483, App
```

## ALIGNMENTS

```
RESULT 1
US-10-751-845-135
; Sequence 135, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-135

Query Match          100.0%; Score 47; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-134

Query Match          100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 3
US-10-751-845-142
; Sequence 142, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-142

Query Match          100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 2
US-10-751-845-134
; Sequence 134, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
US-10-751-845-134

Query Match          100.0%; Score 47; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 4
US-10-751-845-153
; Sequence 153, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
US-10-751-845-153

Query Match          100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 153
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-153
```

```

Query Match          100.0%; Score 47; DB 5; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LTNLTGLYNL 9
        |||||
Db       10 LTNLTGLYNL 18
```

```

RESULT 5
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Chicz, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
```

```

Query Match          100.0%; Score 47; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LTNLTGLYNL 9
        |||||
Db       52 LTNLTGLYNL 60
```

```

RESULT 6
US-10-800-023-27
; Sequence 27, Application US/10800023
; Publication No. US2004025868A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
```

```

; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus E6 protein
US-10-800-023-27
```

```

Query Match          100.0%; Score 47; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LTNLTGLYNL 9
        |||||
Db       93 LTNLTGLYNL 101
```

```

RESULT 7
US-11-021-949-28
; Sequence 28, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-28
```

```

Query Match          100.0%; Score 47; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 LTNLTGLYNL 9
        |||||
Db       93 LTNLTGLYNL 101
```

```

RESULT 8
US-10-472-724-6
; Sequence 6, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
```



; PRIOR APPLICATION NUMBER: EP 01107271.7  
; PRIOR FILING DATE: 2001-03-23  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patent version 3.2  
; SEQ ID NO 6  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Construct  
US-10-472-724-6

Query Match 100.0%; Score 47; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 0.46; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LNTGTGLYNL 9  
|||  
Db 99 LNTGTGLYNL 107

RESULT 9  
US-10-751-845-157  
; Sequence 157, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 157  
; LENGTH: 236  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-157

Query Match 100.0%; Score 47; DB 5; Length 236;  
Best Local Similarity 100.0%; Pred. No. 0.65; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LNTGTGLYNL 9  
|||  
Db 169 LNTGTGLYNL 177

RESULT 10  
US-10-751-845-158  
; Sequence 158, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846

; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 158  
; LENGTH: 237  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-158

Query Match 100.0%; Score 47; DB 5; Length 237;  
Best Local Similarity 100.0%; Pred. No. 0.65; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LNTGTGLYNL 9  
|||  
Db 170 LNTGTGLYNL 178

RESULT 11  
US-10-751-845-160  
; Sequence 160, Application US/10751845  
; Publication No. US20050100928A1  
; GENERAL INFORMATION:  
; APPLICANT: Hedley, Mary Lynne  
; APPLICANT: Urban, Robert G.  
; APPLICANT: Chicz, Roman M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES  
; FILE REFERENCE: 08191-013001  
; CURRENT APPLICATION NUMBER: US/10/751,845  
; CURRENT FILING DATE: 2004-01-05  
; PRIOR APPLICATION NUMBER: US/09/664,225  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/169,846  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: US 60/154,665  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 163  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 160  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Artificial fusion sequence  
US-10-751-845-160

Query Match 100.0%; Score 47; DB 5; Length 261;  
Best Local Similarity 100.0%; Pred. No. 0.72; Mismatches 0; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LNTGTGLYNL 9  
|||  
Db 194 LNTGTGLYNL 202

RESULT 12  
US-10-000-903-21  
; Sequence 21, Application US/10000903  
; Publication No. US20020182221A1  
; GENERAL INFORMATION:  
; APPLICANT: Bruck, Claudine  
; APPLICANT: Cabazon Silva, Teresa  
; APPLICANT: Delisse, Anne-Marie Eva Fermande  
; APPLICANT: Gerard, Catherine Marie Chistaine  
; APPLICANT: Lombardo-Bencheikh, Angela  
; TITLE OF INVENTION: Vaccine  
; FILE REFERENCE: B45107  
; CURRENT APPLICATION NUMBER: US/10/000,903  
; CURRENT FILING DATE: 2001-10-01



```

; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-21
```

```
Query Match          100.0%; Score 47; DB 4; Length 278;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 13
US-10-899-771-21
; Sequence 21, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-21
```

```
Query Match          100.0%; Score 47; DB 5; Length 278;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 14
US-10-000-903-23
; Sequence 23, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Deliese, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
```

```

; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-23
```

```
Query Match          100.0%; Score 47; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 15
US-10-899-771-23
; Sequence 23, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E67 fusion from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-23
```

```
Query Match          100.0%; Score 47; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LTNLTGLYNL 9
Db 204 LTNLTGLYNL 212
```

```

RESULT 16
US-10-356-257-95
; Sequence 95, Application US/10356257
; Publication No. US20040087767A1
; GENERAL INFORMATION:
; APPLICANT: LAZARUS, ROBERT A.
; APPLICANT: MAUN, HENRY R.
; TITLE OF INVENTION: Fv1a Antagonists
; FILE REFERENCE: P1950R1
; CURRENT APPLICATION NUMBER: US/10/356,257
; CURRENT FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: US 60/355,420
```

PRIOR FILING DATE: 2002-02-06  
NUMBER OF SEQ ID NOS: 355  
SEQ ID NO 95  
LENGTH: 12  
TYPE: PRT  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: sequence is synthesized  
US-10-356-257-95

Query Match 80.9%; Score 38; DB 4; Length 12;  
Best Local Similarity 88.9%; Pred. No. 1.4;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 2 LTNLTGLSNL 10

RESULT 17  
US-11-021-949-29  
Sequence 29, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 29  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-29

Query Match 78.7%; Score 37; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 93 ITNTELYNL 101

RESULT 18  
US-11-021-949-30  
Sequence 30, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 30

LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-30

Query Match 78.7%; Score 37; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 93 ITNTELYNL 101

RESULT 19  
US-11-021-949-361  
Sequence 361, Application US/11021949  
Publication No. US20050142541A1  
GENERAL INFORMATION:  
APPLICANT: LU, PETER  
APPLICANT: GARMAN, JONATHAN DAVID  
APPLICANT: BELMARES, MICHAEL P.  
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA  
APPLICANT: SCHWEIZER, JOHANNES  
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV  
FILE REFERENCE: VITA-012  
CURRENT APPLICATION NUMBER: US/11/021,949  
CURRENT FILING DATE: 2004-12-23  
PRIOR APPLICATION NUMBER: 60/532,373  
PRIOR FILING DATE: 2003-12-23  
NUMBER OF SEQ ID NOS: 361  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 361  
LENGTH: 158  
TYPE: PRT  
ORGANISM: human papilloma virus (HPV)  
US-11-021-949-361

Query Match 78.7%; Score 37; DB 6; Length 158;  
Best Local Similarity 77.8%; Pred. No. 37;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTNLTGLYNL 9  
Db 93 ITNTELYNL 101

RESULT 20  
US-10-767-701-62514  
Sequence 62514, Application US/10767701  
Publication No. US20040172684A1  
GENERAL INFORMATION:  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53535)B  
CURRENT APPLICATION NUMBER: US/10/767,701  
CURRENT FILING DATE: 2004-01-29  
NUMBER OF SEQ ID NOS: 63128  
SEQ ID NO 62514  
LENGTH: 173  
TYPE: PRT  
ORGANISM: Sorghum bicolor  
FEATURE:  
OTHER INFORMATION: Clone ID: 18062660.pep  
US-10-767-701-62514

Query Match 78.7%; Score 37; DB 4; Length 173;  
Best Local Similarity 66.7%; Pred. No. 41;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGGLYNL 9  
: |||:  
Db 111 ITKTGMYNL 119

RESULT 21  
US-10-424-599-165644  
; Sequence 165644, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J  
; APPLICANT: Kovalic, David K  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684  
; SEQ ID NO 165644  
; LENGTH: 289  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_120592C.1.pep  
US-10-424-599-165644

Query Match 78.7%; Score 37; DB 4; Length 289;  
Best Local Similarity 66.7%; Pred. No. 71;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGGLYNL 9  
: |||:  
Db 162 ITKTGMYNL 170

RESULT 22  
US-10-437-963-151032  
; Sequence 151032, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 151032  
; LENGTH: 523  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_51213C.1.pep  
US-10-437-963-151032

Query Match 78.7%; Score 37; DB 4; Length 523;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGGLYNL 9  
: |||:  
Db 180 ITKTGMYNL 188

RESULT 23  
US-10-425-115-343736  
; Sequence 343736, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 343736  
; LENGTH: 534  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)..(534)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_76649C.1.pep  
US-10-425-115-343736

Query Match 78.7%; Score 37; DB 4; Length 534;  
Best Local Similarity 66.7%; Pred. No. 1.4e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGGLYNL 9  
: |||:  
Db 193 ITKTGMYNL 201

RESULT 24  
US-10-437-963-146238  
; Sequence 146238, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 146238  
; LENGTH: 47  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_46881C.1.pep  
US-10-437-963-146238

Query Match 74.5%; Score 35; DB 4; Length 47;  
Best Local Similarity 87.5%; Pred. No. 24;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TWTGGLYNL 9  
: |||:  
Db 27 ITKTGMYNL 34

```
RESULT 25
US-10-767-701-56572
; Sequence 56572, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 56572
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 30945368.pep
US-10-767-701-56572

Query Match          74.5%; Score 35; DB 4; Length 189;
Best Local Similarity 55.6%; Pred. No. 1.1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LINTGLYNL 9
Db      171 ITKTGMVNM 179

RESULT 26
US-10-425-115-197706
; Sequence 197706, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 197706
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(233)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_111891C.1.pep
US-10-425-115-197706

Query Match          74.5%; Score 35; DB 4; Length 233;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LINTGLYNL 9
Db      168 ITKTGLVNM 176

RESULT 27
US-10-437-963-176280
; Sequence 176280, Application US/10437963
; Publication No. US2004012343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
```

---

```
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 176280
; LENGTH: 386
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_74043C.1.pep
US-10-437-963-176280

Query Match          74.5%; Score 35; DB 4; Length 386;
Best Local Similarity 55.6%; Pred. No. 2.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 LINTGLYNL 9
Db      206 ITKTGMVNM 214

RESULT 28
US-10-424-599-155545
; Sequence 155545, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 155545
; LENGTH: 427
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_111478C.1.pep
US-10-424-599-155545

Query Match          74.5%; Score 35; DB 4; Length 427;
Best Local Similarity 75.0%; Pred. No. 2.7e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 TINTGLYNL 9
Db      213 SNTGLFNL 220

RESULT 29
US-10-425-115-197705
; Sequence 197705, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
```

```
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 197705
LENGTH: 516
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_111890C.1.pcp
US-10-425-115-197705

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 516;
Pred. No. 3.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGTGLNXL 9
DB 169 ITKTGMNMM 177

RESULT 30
US-10-425-114-67463
Sequence 67463, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jindong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E.
APPLICANT: Tabaska, Jack E.
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 67463
LENGTH: 529
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: LIB4757-007-C4_FRI.pcp
US-10-425-114-67463

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 529;
Pred. No. 3.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGTGLNXL 9
DB 214 ITKTGLNMM 222

RESULT 31
US-10-282-122A-62548
Sequence 62548, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
```

```
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 62548
LENGTH: 1721
TYPE: PRT
ORGANISM: Mycobacterium bovis
US-10-282-122A-62548

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 1721;
Pred. No. 1.2e+03;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TWTGTGLN 8
DB 737 TWTGTGLN 743

RESULT 32
US-10-282-122A-64364
Sequence 64364, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
```

```
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 64364
; LENGTH: 2204
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64364

Query Match          74.5%; Score 35; DB 4; Length 2204;
Best Local Similarity 85.7%; Pred. No. 1.6e+03;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      2  TMTGLYN 8
       :|||||:
Db      242 TMTGLFN 248

RESULT 33
US-09-813-329-19
; Sequence 19, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Subb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 19
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-19

Query Match          72.3%; Score 34; DB 3; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1  LTNLTGLY 7
       :|||||:
Db      3  VTNTGLY 9

RESULT 34
US-09-813-329-20
; Sequence 20, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Subb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 20
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-20

Query Match          72.3%; Score 34; DB 6; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1  LTNLTGLY 7
       :|||||:
Db      3  VTNTGLY 9

RESULT 35
US-11-142-736-19
; Sequence 19, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Subb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DMTNF") ar
; FILE REFERENCE: D0016.DIV1
; CURRENT APPLICATION NUMBER: US/11/142,736
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 19
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-19

Query Match          72.3%; Score 34; DB 6; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1  LTNLTGLY 7
       :|||||:
Db      3  VTNTGLY 9

RESULT 36
US-11-142-736-20
; Sequence 20, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Subb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DMTNF") ar
; FILE REFERENCE: D0016.DIV1
; CURRENT APPLICATION NUMBER: US/11/142,736
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 20
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-20

Query Match          72.3%; Score 34; DB 6; Length 17;
Best Local Similarity 85.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1  LTNLTGLY 7
       :|||||:
Db      3  VTNTGLY 9
```

```
RESULT 37
US-09-813-329-54
; Sequence 54, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 54
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-54

Query Match      72.3%; Score 34; DB 3; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNLTGLY 7
       :|||||
Db      8 VTNTGLY 14

RESULT 38
US-09-813-329-64
; Sequence 64, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.nd
; CURRENT APPLICATION NUMBER: US/09/813,329
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 64
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-64

Query Match      72.3%; Score 34; DB 3; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNLTGLY 7
       :|||||
Db      8 VTNTGLY 14

RESULT 39
US-11-142-736-54
; Sequence 54, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DmTNF")
; FILE REFERENCE: D0016.D1V1
; CURRENT APPLICATION NUMBER: US/11/142,736
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
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; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 54
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-54

Query Match      72.3%; Score 34; DB 6; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNLTGLY 7
       :|||||
Db      8 VTNTGLY 14

RESULT 40
US-11-142-736-64
; Sequence 64, Application US/11142736
; Publication No. US20050227283A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: Novel Drosophila Tumor Necrosis Factor Class Molecule ("DmTNF")
; FILE REFERENCE: D0016.D1V1
; CURRENT APPLICATION NUMBER: US/11/142,736
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 64
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-11-142-736-64

Query Match      72.3%; Score 34; DB 6; Length 27;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LTNLTGLY 7
       :|||||
Db      8 VTNTGLY 14

RESULT 41
US-10-437-963-175271
; Sequence 175271, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 175271
; LENGTH: 68
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_73132C.1.pap
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US-10-437-963-175271

Query Match 72.3%; Score 34; DB 4; Length 68;  
Best Local Similarity 75.0%; Pred. No. 56;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTNGLYNL 8  
|:|:|:|:  
Db 25 LSNCTYV 32

RESULT 42

US-10-767-701-42259  
; Sequence 42259, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement  
; FILE REFERENCE: 38-21(5353)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 42259  
; LENGTH: 181  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28WAY03-C33563\_1.pep  
US-10-767-701-42259

Query Match 72.3%; Score 34; DB 4; Length 181;  
Best Local Similarity 62.5%; Pred. No. 1.6e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 2 TMTGLYNL 9  
|:|:|:|:  
Db 115 TDTGNTN 122

RESULT 43

US-09-925-297-484  
; Sequence 484, Application US/09925297  
; Patent No. US20020081659A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA105  
; CURRENT APPLICATION NUMBER: US/09/925,297  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05989  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 928  
; SOFTWARE: Patent Ver. 2.0  
; SEQ ID NO 484  
; LENGTH: 211  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-925-297-484

Query Match 72.3%; Score 34; DB 3; Length 211;  
Best Local Similarity 85.7%; Pred. No. 1.9e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLYNL 9  
|:|:|:|:  
Db 68 NTGLFNL 74

RESULT 44

US-10-094-749-1949  
; Sequence 1949, Application US/10094749  
; Publication No. US20030219741A1  
; GENERAL INFORMATION:  
; APPLICANT: ISOGAI, TAKAO  
; APPLICANT: SUGIYAMA, TOMOYASU  
; APPLICANT: OTSUKI, TETSUJI  
; APPLICANT: WAKAMATSU, AI  
; APPLICANT: SATO, HIROYUKI  
; APPLICANT: ISHII, SHIZUKO  
; APPLICANT: YAMAMOTO, JUN-ICHI  
; APPLICANT: ISONO, YUUKO  
; APPLICANT: HTO, YURI  
; APPLICANT: OTSUKA, KAORU  
; APPLICANT: NAGAI, KEIICHI  
; APPLICANT: IRIE, RYOTARO  
; APPLICANT: TAMECHIKA, ICHIRO  
; APPLICANT: SEKI, NAOHICO  
; APPLICANT: YOSHIKAWA, TSUTOMU  
; APPLICANT: OTSUKA, MOTORUKI  
; APPLICANT: NAGAHARI, KENJI  
; APPLICANT: MASUHO, YASUHIKO  
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA  
; FILE REFERENCE: 084335/0160  
; CURRENT APPLICATION NUMBER: US/10/094,749  
; CURRENT FILING DATE: 2002-03-12  
; PRIOR APPLICATION NUMBER: 60/350,435  
; PRIOR FILING DATE: 2002-01-24  
; PRIOR APPLICATION NUMBER: JP 2001-328381  
; PRIOR FILING DATE: 2001-09-14  
; NUMBER OF SEQ ID NOS: 3381  
; SOFTWARE: Patent Ver. 2.1  
; SEQ ID NO 1949  
; LENGTH: 213  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-094-749-1949

Query Match 72.3%; Score 34; DB 4; Length 213;  
Best Local Similarity 66.7%; Pred. No. 2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTNGLYNL 9  
|:|:|:|:  
Db 190 LPTGLYNM 198

RESULT 45

US-10-104-047-3590  
; Sequence 3590, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. US20030236392A1 full length CDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: Patent Ver. 2.1  
; SEQ ID NO 3590  
; LENGTH: 258  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3590

Query Match 72.3%; Score 34; DB 4; Length 258;  
Best Local Similarity 85.7%; Pred. No. 2.4e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 3 NTGLYNL 9



Db 57 NTGFLNL 63

RESULT 46  
US-11-097-143-29451  
; Sequence 29451, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venier, J. Craig  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for windows Version 4.0  
; SEQ ID NO 29451  
; LENGTH: 325  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-29451

Query Match 72.3%; Score 34; DB 6; Length 325;  
Best Local Similarity 85.7%; Pred. No. 3.1e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LNTGFLY 7  
Db 234 VNTGFLY 240

RESULT 47  
US-10-085-198-24  
; Sequence 24, Application US/10085198  
; Publication No. US2004000907A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsbrook et al.  
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-279  
; CURRENT APPLICATION NUMBER: US/10/085,198  
; CURRENT FILING DATE: 2002-02-25  
; PRIOR APPLICATION NUMBER: 60/271,646  
; PRIOR FILING DATE: 2001-02-26  
; PRIOR APPLICATION NUMBER: 60/276,401  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/311,981  
; PRIOR FILING DATE: 2001-08-13  
; PRIOR APPLICATION NUMBER: 60/312,858  
; PRIOR FILING DATE: 2001-08-16  
; PRIOR APPLICATION NUMBER: 60/271,840  
; PRIOR FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: 60/277,324  
; PRIOR FILING DATE: 2001-03-20  
; PRIOR APPLICATION NUMBER: 60/286,096

; PRIOR FILING DATE: 2001-04-21  
; PRIOR APPLICATION NUMBER: 60/299,695  
; PRIOR FILING DATE: 2001-06-20  
; PRIOR APPLICATION NUMBER: 60/315,614  
; PRIOR FILING DATE: 2001-08-29  
; PRIOR APPLICATION NUMBER: 60/272,405  
; PRIOR FILING DATE: 2001-02-28  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 653  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 24  
; LENGTH: 356  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-085-198-24

Query Match 72.3%; Score 34; DB 4; Length 356;  
Best Local Similarity 66.7%; Pred. No. 3.4e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LNTGFLY 9  
Db 333 LPDTGLYNN 341

RESULT 48  
US-10-425-115-304104  
; Sequence 304104, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(5322)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2005-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 304104  
; LENGTH: 390  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_40433C.1.pep  
US-10-425-115-304104

Query Match 72.3%; Score 34; DB 4; Length 390;  
Best Local Similarity 62.5%; Pred. No. 3.8e+02;  
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TWTGLYNL 9  
Db 115 TDTGMVNT 122

RESULT 49  
US-10-062-254-294  
; Sequence 294, Application US/10062254  
; Publication No. US20020138882A1  
; GENERAL INFORMATION:  
; APPLICANT: Cahoon, Edgar B  
; APPLICANT: Cahoon, Rebecca E  
; APPLICANT: Falco, Saverio Carl  
; APPLICANT: Fang, Yiwen  
; APPLICANT: Hancke, Sabine S.  
; APPLICANT: Lee, Jian-Ming  
; APPLICANT: Li, Zhongsen  
; APPLICANT: Miao, Guo-Hua  
; APPLICANT: Morgante, Michele  
; APPLICANT: Niu Xiping  
; APPLICANT: Odell, Joan

Search completed: May 5, 2006, 08:50:05  
Job time : 61.3 secs

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; APPLICANT: Rafalski, Antoni
; APPLICANT: Sakai, Hajime
; APPLICANT: Zheng, Peizhong
; APPLICANT: Zhu, Qun
; TITLE OF INVENTION: Polynucleotides Encoding Proteins Involved In Plant Metabolism
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/062,254
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/630,346
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 60/146511
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 60/156006
; PRIOR FILING DATE: 1999-09-23
; PRIOR APPLICATION NUMBER: 60/156899
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 60/157287
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/169767
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/171054
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: 60/172958
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/171515
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 60/173535
; PRIOR FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 375
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 294
; LENGTH: 393
; TYPE: PRT
; ORGANISM: Zea mays
US-10-062-254-294
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Query Match          72.3%; Score 34; DB 4; Length 393;
Best Local Similarity 62.5%; Pred. No. 3.8e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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QY          2 TMTGLYNL 9
            |:|:|:|:|
Db          115 TDTGMWNI 122
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RESULT 50
US-09-813-329-4
; Sequence 4, Application US/09813329
; Patent No. US20020012968A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: No. US20020012968A1el Drosophila Tumor Necrosis Factor Class Mole
; FILE REFERENCE: D0016.np
; CURRENT APPLICATION NUMBER: US/09/813,329
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,816
; PRIOR FILING DATE: 2000-03-21
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 406
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-813-329-4
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Query Match          72.3%; Score 34; DB 3; Length 406;
Best Local Similarity 85.7%; Pred. No. 4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY          1 LTNLTGLY 7
            :|:|:|:|
Db          315 VTNLTGLY 321
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds  
(without alignments)  
49,591 Million cell updates/sec

Title: US-08-170-344-29  
Perfect score: 47  
Sequence: 1 LTNITGLYNL 9

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 235405

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_New.\*

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3: /SIDSS/ptodata/1/pubppaa/US07\_NEW\_PUB.pep.\*  
4: /SIDSS/ptodata/1/pubppaa/US08\_NEW\_PUB.pep.\*  
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12: /SIDSS/ptodata/1/pubppaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	47	100.0	158	9 US-10-530-253-15	Sequence 15, App1
2	38	80.9	15	9 US-10-530-061-1664	Sequence 1664, App1
3	37	78.7	11	9 US-10-530-061-45	Sequence 45, App1
4	37	78.7	11	9 US-10-530-061-50	Sequence 50, App1
5	37	78.7	11	9 US-10-530-061-111	Sequence 111, App1
6	37	78.7	158	9 US-10-530-253-19	Sequence 19, App1
7	37	78.7	158	9 US-10-530-253-20	Sequence 20, App1
8	37	78.7	158	9 US-10-530-253-26	Sequence 26, App1
9	35	74.5	2204	11 US-11-052-554A-134	Sequence 134, App
10	35	74.5	3716	11 US-11-052-554A-141	Sequence 141, App
11	34	72.3	258	11 US-11-072-513-3590	Sequence 3590, App
12	34	72.3	326	11 US-11-087-099-731	Sequence 731, App
13	34	72.3	688	9 US-10-878-556A-133	Sequence 132, App
14	33	70.2	389	11 US-11-079-463-7664	Sequence 7664, App
15	33	70.2	407	11 US-11-188-298-1813	Sequence 1813, App
16	33	70.2	567	11 US-11-127-817-16	Sequence 16, App1
17	33	70.2	1356	11 US-11-129-741-2939	Sequence 2939, App
18	33	70.2	1356	11 US-11-129-741-2941	Sequence 2941, App
19	33	70.2	1356	11 US-11-129-741-2943	Sequence 2943, App
20	33	70.2	1356	11 US-11-129-741-2945	Sequence 2945, App
21	33	70.2	1356	11 US-11-129-741-2949	Sequence 2949, App

22	33	70.2	1356	11 US-11-129-741-2951	Sequence 2951, App
23	33	70.2	1356	11 US-11-129-741-4245	Sequence 4245, App
24	33	70.2	1362	11 US-10-895-064-420	Sequence 420, App
25	33	70.2	1362	11 US-11-129-741-420	Sequence 133, App
26	33	70.2	3300	11 US-11-052-554A-133	Sequence 15, App1
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29	32	68.1	294	11 US-11-045-004-2620	Sequence 1697, A
30	32	68.1	304	11 US-11-188-298-16567	Sequence 1583, App
31	32	68.1	356	11 US-11-079-463-7583	Sequence 158, App
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34	32	68.1	728	10 US-11-311-555-18	Sequence 3399, App
35	32	68.1	728	10 US-11-311-561-18	Sequence 5, App1
36	32	68.1	728	10 US-11-072-512-3399	Sequence 318, App
37	32	68.1	739	9 US-10-963-439-5	Sequence 318, App
38	31	66.0	13	11 US-11-152-974A-318	Sequence 2192, App
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40	31	66.0	286	9 US-10-793-626-2192	Sequence 13458, A
41	31	66.0	367	11 US-11-079-463-6223	Sequence 3684, App
42	31	66.0	431	11 US-11-188-298-13458	Sequence 173, App
43	31	66.0	472	11 US-11-079-463-5684	Sequence 3289, App
44	31	66.0	504	11 US-11-045-004-173	Sequence 14, App1
45	31	66.0	744	11 US-11-087-099-3289	Sequence 185, App
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49	30	63.8	15	9 US-10-311-822-6	Sequence 25905, A
50	30	63.8	215	11 US-11-091-018-5	Sequence 7553, App
51	30	63.8	297	11 US-11-096-568A-25905	Sequence 23, App1
52	30	63.8	328	11 US-11-087-099-7553	Sequence 22, App1
53	30	63.8	332	9 US-10-895-064-23	Sequence 25004, A
54	30	63.8	332	11 US-11-129-741-23	Sequence 157, App
55	30	63.8	344	11 US-11-096-568A-25904	Sequence 156, App
56	30	63.8	344	11 US-11-087-099-7157	Sequence 94, App1
57	30	63.8	354	11 US-11-052-554A-156	Sequence 8858, App
58	30	63.8	396	9 US-10-498-028-94	Sequence 9, App1
59	30	63.8	404	11 US-11-079-463-8858	Sequence 4, App1
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63	30	63.8	693	9 US-10-131-826A-406	Sequence 406, App
64	30	63.8	693	9 US-10-973-115B-406	Sequence 134, App
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66	30	63.8	693	9 US-10-218-784-134	Sequence 134, App
67	30	63.8	693	9 US-10-219-061-134	Sequence 134, App
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69	30	63.8	693	9 US-10-219-064-134	Sequence 134, App
70	30	63.8	693	9 US-10-233-134-134	Sequence 483, App
71	30	63.8	693	9 US-10-216-161A-483	Sequence 406, App
72	30	63.8	693	9 US-10-137-873A-406	Sequence 406, App
73	30	63.8	693	9 US-10-152-370-406	Sequence 406, App
74	30	63.8	693	11 US-11-290-153-406	Sequence 406, App
75	30	63.8	1053	11 US-11-052-554A-151	Sequence 151, App
76	30	63.8	1351	11 US-11-129-741-2937	Sequence 2937, App
77	30	63.8	1351	11 US-11-129-741-2947	Sequence 2947, App
78	30	63.8	1367	9 US-10-995-561-538	Sequence 538, App
79	30	63.8	1367	9 US-10-510-903-10	Sequence 10, App1
80	30	63.8	1367	11 US-11-113-202-18	Sequence 18, App1
81	30	63.8	1368	9 US-10-995-561-539	Sequence 539, App
82	30	63.8	1385	11 US-11-129-741-3555	Sequence 3655, App
83	30	63.8	1436	11 US-11-052-554A-140	Sequence 140, App
84	30	63.8	2902	11 US-11-052-554A-91	Sequence 91, App1
85	30	63.8	4495	9 US-10-453-372-1002	Sequence 1002, App
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87	30	63.8	7465	11 US-11-087-099-7521	Sequence 7521, App
88	29	61.7	17	11 US-11-171-567-177	Sequence 177, App
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92	29	61.7	63	11 US-11-000-4643-320	Sequence 320, App
93	29	61.7	186	11 US-11-096-556A-23035	Sequence 23035, A
94	29	61.7	196	11 US-11-079-463-7124	Sequence 7124, App

95	29	61.7	202	11	US-11-079-463-8380	Sequence 8380, Ap	168	28	59.6	339	9	US-10-517-939-154	Sequence 154, App
96	29	61.7	220	11	US-11-096-568A-23034	Sequence 23034, A	169	28	59.6	339	11	US-11-096-568A-23797	Sequence 23797, A
97	29	61.7	257	11	US-11-036-568A-23033	Sequence 23033, A	170	28	59.6	342	9	US-10-517-939-220	Sequence 220, App
98	29	61.7	304	11	US-11-188-298-22404	Sequence 22404, A	171	28	59.6	346	9	US-10-517-939-160	Sequence 160, App
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100	29	61.7	306	11	US-11-045-004-1223	Sequence 1223, Ap	173	28	59.6	346	11	US-11-087-099-745	Sequence 745, App
101	29	61.7	311	9	US-10-793-626-3080	Sequence 3080, Ap	174	28	59.6	346	11	US-11-188-298-11140	Sequence 11740, A
102	29	61.7	346	11	US-11-188-298-1719	Sequence 1719, Ap	175	28	59.6	347	9	US-10-517-939-196	Sequence 196, App
103	29	61.7	396	11	US-11-087-099-8866	Sequence 8866, Ap	176	28	59.6	347	9	US-10-517-939-222	Sequence 222, App
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107	29	61.7	432	9	US-10-836-993-1	Sequence 1, App1	180	28	59.6	349	11	US-11-096-568A-3298	Sequence 3298, Ap
108	29	61.7	435	11	US-11-098-686-10336	Sequence 10336, A	181	28	59.6	351	11	US-11-219-282-34	Sequence 34, App1
109	29	61.7	436	11	US-11-098-686-10533	Sequence 10533, A	182	28	59.6	352	9	US-10-517-939-226	Sequence 226, App
110	29	61.7	463	11	US-11-087-099-8687	Sequence 8687, Ap	183	28	59.6	352	9	US-10-517-939-184	Sequence 200, App
111	29	61.7	476	11	US-11-264-728-2	Sequence 2, App1	184	28	59.6	354	9	US-10-517-939-200	Sequence 216, App
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114	29	61.7	510	11	US-11-188-298-20873	Sequence 20873, A	187	28	59.6	357	11	US-11-219-282-32	Sequence 10, App1
115	29	61.7	544	9	US-10-703-799B-254	Sequence 254, App	188	28	59.6	357	11	US-11-241-347-10	Sequence 182, App
116	29	61.7	550	9	US-10-523-503-54	Sequence 54, App1	189	28	59.6	358	9	US-10-517-939-182	Sequence 20458, A
117	29	61.7	558	11	US-11-045-004-1791	Sequence 1791, Ap	190	28	59.6	359	11	US-11-096-568A-20458	Sequence 184, App
118	29	61.7	587	11	US-11-052-554A-118	Sequence 118, App	191	28	59.6	360	9	US-10-517-939-184	Sequence 9156, Ap
119	29	61.7	599	11	US-11-079-463-9892	Sequence 9892, Ap	192	28	59.6	360	11	US-11-087-099-9156	Sequence 3323, Ap
120	29	61.7	761	11	US-11-096-568A-27816	Sequence 27816, A	193	28	59.6	362	11	US-11-087-099-3373	Sequence 29615, A
121	29	61.7	776	11	US-11-086-568A-27815	Sequence 27815, A	194	28	59.6	363	11	US-11-096-568A-29615	Sequence 256, App
122	29	61.7	826	9	US-10-455-772-672	Sequence 672, App	195	28	59.6	378	9	US-10-517-939-256	Sequence 29614, A
123	29	61.7	839	11	US-11-096-568A-27814	Sequence 27814, A	196	28	59.6	379	11	US-11-096-568A-29614	Sequence 20457, A
124	29	61.7	860	11	US-11-087-099-6246	Sequence 6246, Ap	197	28	59.6	382	11	US-10-858-730-236	Sequence 10661, A
125	29	61.7	876	11	US-11-087-099-9011	Sequence 9011, Ap	198	28	59.6	386	9	US-10-858-730-236	Sequence 19737, A
126	29	61.7	912	9	US-10-455-772-670	Sequence 670, App	199	28	59.6	388	11	US-11-096-568A-10661	Sequence 19737, A
127	29	61.7	1263	9	US-10-485-517-127	Sequence 127, App	200	28	59.6	389	11	US-10-498-026-90	Sequence 90, App1
128	29	61.7	1572	9	US-10-793-626-2906	Sequence 2906, Ap	201	28	59.6	395	11	US-11-096-568A-10660	Sequence 16600, A
129	29	61.7	2523	11	US-11-052-554A-143	Sequence 143, App	202	28	59.6	396	11	US-11-096-568A-19736	Sequence 19736, A
130	29	61.7	3157	11	US-11-052-554A-142	Sequence 142, App	203	28	59.6	400	11	US-11-079-463-5896	Sequence 5896, Ap
131	29	61.7	3433	9	US-10-714-781A-67	Sequence 67, App1	204	28	59.6	408	11	US-11-096-568A-16345	Sequence 16345, A
132	29	61.7	3433	11	US-11-223-729-2	Sequence 2, App1	205	28	59.6	409	11	US-11-219-282-33	Sequence 6275, App
133	28.5	60.6	867	11	US-11-100-356-3	Sequence 38, App1	206	28	59.6	409	11	US-11-087-099-6275	Sequence 19735, A
134	28	59.6	24	9	US-10-973-977-38	Sequence 2821, Ap	207	28	59.6	409	11	US-11-186-284-187	Sequence 16343, A
135	28	59.6	122	11	US-11-045-004-2281	Sequence 242, App	208	28	59.6	418	11	US-11-096-568A-19735	Sequence 16343, A
136	28	59.6	123	11	US-11-052-554A-242	Sequence 271, App	209	28	59.6	420	11	US-11-096-568A-16344	Sequence 7342, Ap
137	28	59.6	149	9	US-10-986-405-271	Sequence 2428, Ap	210	28	59.6	420	11	US-11-087-099-7343	Sequence 31151, A
138	28	59.6	184	11	US-11-072-512-2428	Sequence 9770, Ap	211	28	59.6	430	11	US-11-098-686-11151	Sequence 3115, Ap
139	28	59.6	188	11	US-11-079-463-9770	Sequence 1858, Ap	212	28	59.6	434	11	US-11-188-298-3119	Sequence 19856, A
140	28	59.6	204	11	US-11-045-004-1858	Sequence 20459, A	213	28	59.6	435	11	US-11-188-298-7342	Sequence 16343, A
141	28	59.6	213	11	US-11-096-568A-20459	Sequence 137, App	214	28	59.6	437	11	US-11-096-568A-16343	Sequence 5843, Ap
142	28	59.6	218	11	US-11-018-868-137	Sequence 6742, Ap	215	28	59.6	454	11	US-11-087-099-3231	Sequence 5843, Ap
143	28	59.6	228	11	US-11-087-099-6742	Sequence 1842, Ap	216	28	59.6	454	11	US-11-087-099-5843	Sequence 5311, Ap
144	28	59.6	237	11	US-11-045-004-386	Sequence 1842, Ap	217	28	59.6	454	11	US-11-188-298-5311	Sequence 604, App
145	28	59.6	244	11	US-11-054-515-1842	Sequence 1842, A	218	28	59.6	458	11	US-11-188-298-11567	Sequence 11567, A
146	28	59.6	244	11	US-11-266-444-1842	Sequence 29616, A	219	28	59.6	461	11	US-11-079-463-5508	Sequence 3950, Ap
147	28	59.6	256	11	US-11-188-298-13426	Sequence 23798, A	220	28	59.6	469	11	US-11-087-099-3950	Sequence 3713, Ap
148	28	59.6	263	11	US-11-096-568A-29616	Sequence 10345, A	221	28	59.6	469	11	US-11-188-298-3713	Sequence 19141, A
149	28	59.6	271	11	US-11-096-568A-23798	Sequence 20555, A	222	28	59.6	469	11	US-11-087-099-3231	Sequence 48, App1
150	28	59.6	282	11	US-11-087-099-10345	Sequence 4849, Ap	223	28	59.6	476	11	US-10-632-150-48	Sequence 48, App1
151	28	59.6	282	11	US-11-188-298-20559	Sequence 5249, Ap	224	28	59.6	483	9	US-11-106-014-48	Sequence 48, App1
152	28	59.6	287	11	US-11-087-099-4849	Sequence 35, App1	225	28	59.6	483	11	US-11-073-457-48	Sequence 48, App1
153	28	59.6	294	11	US-11-079-463-5249	Sequence 1397, App	226	28	59.6	483	11	US-11-073-463-48	Sequence 48, App1
154	28	59.6	302	11	US-11-219-282-35	Sequence 1409, Ap	227	28	59.6	483	11	US-10-131-626A-268	Sequence 9599, Ap
155	28	59.6	306	11	US-11-087-099-1397	Sequence 3300, Ap	228	28	59.6	483	9	US-10-131-626A-268	Sequence 268, App
156	28	59.6	306	11	US-11-188-298-1409	Sequence 2904, Ap	229	28	59.6	483	9	US-10-137-873A-268	Sequence 268, App
157	28	59.6	316	11	US-11-096-568A-3300	Sequence 9874, Ap	230	28	59.6	493	11	US-10-152-370-268	Sequence 10, App1
158	28	59.6	318	11	US-11-194-246-294	Sequence 554, App	231	28	59.6	493	9	US-11-067-121-10	Sequence 268, App
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160	28	59.6	326	11	US-11-096-568A-10662	Sequence 6040, Ap	233	28	59.6	493	11	US-11-290-153-268	Sequence 3603, Ap
161	28	59.6	328	11	US-11-055-822-554	Sequence 5874, Ap	234	28	59.6	509	11	US-11-072-512-3603	Sequence 6039, Ap
162	28	59.6	329	11	US-11-096-568A-6040	Sequence 11033, A	235	28	59.6	510	11	US-11-096-568A-6039	Sequence 9820, Ap
163	28	59.6	332	11	US-11-188-298-5874	Sequence 2072, Ap	236	28	59.6	547	11	US-11-079-463-9820	
164	28	59.6	334	11	US-11-188-298-11035	Sequence 3299, Ap	237	28	59.6				
165	28	59.6	335	9	US-10-467-657-2072		238	28	59.6				
166	28	59.6	338	11	US-11-096-568A-3299		239	28	59.6				
167	28	59.6	338	11	US-11-096-568A-3299		240	28	59.6				

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242	28	59.6	561	11	US-11-087-099-8494	Sequence 8494, Ap	315	27	57.4	247	9	US-10-973-115B-284	Sequence 284, App
243	28	59.6	566	11	US-11-087-099-7404	Sequence 7404, Ap	316	27	57.4	247	9	US-10-137-873A-284	Sequence 284, App
244	28	59.6	589	11	US-11-045-004-11	Sequence 11, Appl	317	27	57.4	247	9	US-10-152-370-284	Sequence 284, App
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247	28	59.6	608	11	US-11-241-347-8	Sequence 9, Appl	320	27	57.4	248	11	US-11-190-364-15	Sequence 15, Appl
248	28	59.6	637	9	US-10-467-657-1594	Sequence 1594, Ap	321	27	57.4	248	11	US-11-147-880-15	Sequence 110, App
249	28	59.6	661	11	US-11-188-298-17824	Sequence 17824, A	322	27	57.4	250	11	US-11-054-669-110	Sequence 27, Appl
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251	28	59.6	692	11	US-11-188-298-17661	Sequence 17661, A	324	27	57.4	253	11	US-11-106-820-20	Sequence 18, Appl
252	28	59.6	769	9	US-10-485-517-401	Sequence 401, App	325	27	57.4	253	11	US-11-190-364-18	Sequence 18, Appl
253	28	59.6	776	11	US-11-188-298-1117	Sequence 7117, Ap	326	27	57.4	253	11	US-11-147-880-18	Sequence 44, Appl
254	28	59.6	777	11	US-11-188-298-4859	Sequence 4859, Ap	327	27	57.4	253	11	US-11-259-232-42	Sequence 52, Appl
255	28	59.6	777	11	US-11-188-298-9417	Sequence 9417, A	328	27	57.4	253	11	US-11-259-232-55	Sequence 55, Appl
256	28	59.6	777	11	US-11-188-298-15702	Sequence 15702, A	329	27	57.4	253	11	US-11-259-232-55	Sequence 55, Appl
257	28	59.6	834	11	US-11-087-099-10005	Sequence 10005, A	330	27	57.4	255	11	US-11-188-298-1914	Sequence 34, Appl
258	28	59.6	836	11	US-11-165-819-3	Sequence 3, Appl	331	27	57.4	256	11	US-11-137-465-34	Sequence 70, Appl
259	28	59.6	858	11	US-11-087-099-916	Sequence 916, App	332	27	57.4	256	11	US-11-259-232-70	Sequence 8945, Ap
260	28	59.6	863	11	US-11-087-099-613	Sequence 613, App	333	27	57.4	261	11	US-11-259-232-70	Sequence 2130, App
261	28	59.6	863	11	US-11-188-298-11584	Sequence 11584, A	334	27	57.4	268	11	US-11-096-568A-2130	Sequence 12719, A
262	28	59.6	914	9	US-10-455-772-666	Sequence 666, App	335	27	57.4	270	11	US-11-096-568A-12719	Sequence 32124, A
263	28	59.6	914	9	US-10-455-772-666	Sequence 666, App	336	27	57.4	290	11	US-11-096-568A-32124	Sequence 9097, Ap
264	28	59.6	967	9	US-10-455-772-664	Sequence 664, App	337	27	57.4	294	11	US-11-096-568A-9097	Sequence 31468, A
265	28	59.6	982	11	US-11-079-463-7556	Sequence 7556, Ap	338	27	57.4	296	11	US-11-096-568A-31468	Sequence 60, Appl
266	28	59.6	109	11	US-11-096-568A-29006	Sequence 29006, A	339	27	57.4	298	11	US-11-259-232-60	Sequence 26, Appl
267	28	59.6	1294	11	US-11-052-554A-340	Sequence 340, App	340	27	57.4	302	11	US-11-126-427-26	Sequence 20664, A
268	28	59.6	1382	11	US-11-098-686-10934	Sequence 10934, A	341	27	57.4	304	11	US-11-096-568A-20664	Sequence 26, Appl
269	28	59.6	1606	9	US-10-501-841-18	Sequence 18, Appl	342	27	57.4	306	9	US-10-798-579A-26	Sequence 26, Appl
270	28	59.6	1643	11	US-11-052-554A-172	Sequence 172, App	343	27	57.4	307	11	US-11-096-568A-32069	Sequence 337, App
271	28	59.6	1849	11	US-11-102-476-46	Sequence 46, Appl	344	27	57.4	310	11	US-11-087-099-337	Sequence 32069, A
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273	28	59.6	2004	9	US-10-530-061-51	Sequence 487, App	346	27	57.4	319	11	US-11-056-454-625	Sequence 625, App
274	27	57.4	11	9	US-10-530-061-487	Sequence 487, App	347	27	57.4	319	11	US-11-096-568A-2129	Sequence 2129, Ap
275	27	57.4	50	11	US-11-096-568A-3339	Sequence 3339, Ap	348	27	57.4	319	11	US-11-096-568A-3339	Sequence 3339, Ap
276	27	57.4	96	9	US-10-467-657-4198	Sequence 4198, Ap	349	27	57.4	326	9	US-10-999-866-36	Sequence 36, Appl
277	27	57.4	98	10	US-11-219-563-138	Sequence 138, App	350	27	57.4	326	9	US-10-988-207-24	Sequence 24, Appl
278	27	57.4	98	11	US-11-025-712-1	Sequence 1, Appl	351	27	57.4	326	9	US-10-493-909-22	Sequence 22, Appl
279	27	57.4	98	11	US-11-025-712-2	Sequence 2, Appl	352	27	57.4	326	9	US-11-091-234A-36	Sequence 36, Appl
280	27	57.4	98	11	US-11-025-712-3	Sequence 3, Appl	353	27	57.4	326	10	US-11-144-248-58	Sequence 28, Appl
281	27	57.4	98	11	US-11-025-712-4	Sequence 4, Appl	354	27	57.4	326	11	US-11-061-821-36	Sequence 36, Appl
282	27	57.4	98	11	US-11-025-712-138	Sequence 138, App	355	27	57.4	326	11	US-11-102-621-2	Sequence 2, Appl
283	27	57.4	100	11	US-11-025-712-7	Sequence 7, Appl	356	27	57.4	326	11	US-11-102-621-10	Sequence 10, Appl
284	27	57.4	103	11	US-11-075-351-48	Sequence 48, Appl	357	27	57.4	326	11	US-11-102-621-11	Sequence 11, Appl
285	27	57.4	103	11	US-11-075-351-50	Sequence 50, Appl	358	27	57.4	326	11	US-11-102-621-12	Sequence 12, Appl
286	27	57.4	103	11	US-11-075-351-51	Sequence 51, Appl	359	27	57.4	326	11	US-11-102-621-13	Sequence 13, Appl
287	27	57.4	103	11	US-11-075-351-57	Sequence 57, Appl	360	27	57.4	326	11	US-11-102-621-14	Sequence 14, Appl
288	27	57.4	104	9	US-10-834-397-168	Sequence 168, App	361	27	57.4	326	11	US-11-102-621-15	Sequence 15, Appl
289	27	57.4	104	11	US-11-075-351-49	Sequence 49, Appl	362	27	57.4	326	11	US-11-102-621-16	Sequence 16, Appl
290	27	57.4	105	9	US-10-821-234-857	Sequence 857, App	363	27	57.4	326	11	US-11-102-621-17	Sequence 17, Appl
291	27	57.4	108	9	US-10-793-626-554	Sequence 554, App	364	27	57.4	326	11	US-11-102-621-18	Sequence 18, Appl
292	27	57.4	110	11	US-11-049-536-520	Sequence 520, App	365	27	57.4	326	11	US-11-102-621-19	Sequence 19, Appl
293	27	57.4	110	11	US-11-199-739-520	Sequence 520, App	366	27	57.4	326	11	US-11-102-621-20	Sequence 20, Appl
294	27	57.4	122	9	US-10-793-626-2012	Sequence 2012, Ap	367	27	57.4	326	11	US-11-102-621-21	Sequence 21, Appl
295	27	57.4	130	9	US-10-485-517-207	Sequence 207, App	368	27	57.4	326	11	US-11-102-621-22	Sequence 22, Appl
296	27	57.4	155	11	US-11-087-099-5352	Sequence 5352, Ap	369	27	57.4	326	11	US-11-102-621-23	Sequence 23, Appl
297	27	57.4	169	9	US-10-917-905-5	Sequence 5, Appl	370	27	57.4	326	11	US-11-102-621-24	Sequence 24, Appl
298	27	57.4	179	11	US-11-096-568A-25088	Sequence 25088, A	371	27	57.4	326	11	US-11-102-621-25	Sequence 25, Appl
299	27	57.4	186	9	US-10-942-698-7	Sequence 7, Appl	372	27	57.4	326	11	US-11-102-621-26	Sequence 26, Appl
300	27	57.4	220	11	US-11-094-625-10	Sequence 10, Appl	373	27	57.4	326	11	US-11-102-621-27	Sequence 27, Appl
301	27	57.4	222	11	US-11-217-995-7	Sequence 7, Appl	374	27	57.4	326	11	US-11-102-621-28	Sequence 28, Appl
302	27	57.4	225	11	US-11-087-099-472	Sequence 472, App	375	27	57.4	326	11	US-11-102-621-29	Sequence 29, Appl
303	27	57.4	229	9	US-10-923-327-13	Sequence 13, Appl	376	27	57.4	326	11	US-11-102-621-30	Sequence 30, Appl
304	27	57.4	229	9	US-10-923-327-14	Sequence 14, Appl	377	27	57.4	326	11	US-11-102-621-31	Sequence 31, Appl
305	27	57.4	222	11	US-11-025-712-10	Sequence 10, Appl	378	27	57.4	326	11	US-11-102-621-32	Sequence 32, Appl
306	27	57.4	232	11	US-11-173-564-2	Sequence 2, Appl	379	27	57.4	326	11	US-11-102-621-33	Sequence 33, Appl
307	27	57.4	233	9	US-10-923-327-18	Sequence 18, Appl	380	27	57.4	326	11	US-11-102-621-34	Sequence 34, Appl
308	27	57.4	236	11	US-10-923-327-19	Sequence 19, Appl	381	27	57.4	326	11	US-11-102-621-35	Sequence 35, Appl
309	27	57.4	236	11	US-11-000-463-394	Sequence 394, App	382	27	57.4	326	11	US-11-102-621-36	Sequence 36, Appl
310	27	57.4	236	11	US-11-221-900-2	Sequence 2, Appl	383	27	57.4	326	11	US-11-102-621-37	Sequence 37, Appl
311	27	57.4	240	11	US-11-096-568A-25087	Sequence 25087, A	384	27	57.4	326	11	US-11-102-621-38	Sequence 38, Appl
312	27	57.4	241	11	US-11-079-463-9266	Sequence 9266, Ap	385	27	57.4	326	11	US-11-102-621-39	Sequence 39, Appl
313	27	57.4	243	11	US-11-096-568A-16381	Sequence 16381, A	386	27	57.4	326	11	US-11-102-621-39	Sequence 39, Appl

387	27	57.4	326	11	US-11-102-621-40	Sequence 40, Appl	460	27	57.4	330	11	US-11-102-621-7	Sequence 7, Appl
388	27	57.4	326	11	US-11-102-621-41	Sequence 41, Appl	461	27	57.4	330	11	US-11-102-621-67	Sequence 67, Appl
389	27	57.4	326	11	US-11-102-621-42	Sequence 42, Appl	462	27	57.4	330	11	US-11-102-621-68	Sequence 68, Appl
390	27	57.4	326	11	US-11-102-621-43	Sequence 43, Appl	463	27	57.4	330	11	US-11-102-621-69	Sequence 69, Appl
391	27	57.4	326	11	US-11-102-621-44	Sequence 44, Appl	464	27	57.4	330	11	US-11-102-621-70	Sequence 70, Appl
392	27	57.4	326	11	US-11-102-621-45	Sequence 45, Appl	465	27	57.4	330	11	US-11-102-621-71	Sequence 71, Appl
393	27	57.4	326	11	US-11-102-621-46	Sequence 46, Appl	466	27	57.4	330	11	US-11-102-621-75	Sequence 75, Appl
394	27	57.4	326	11	US-11-102-621-47	Sequence 47, Appl	467	27	57.4	330	11	US-11-102-621-76	Sequence 76, Appl
395	27	57.4	326	11	US-11-102-621-48	Sequence 48, Appl	468	27	57.4	330	11	US-11-005-726-164	Sequence 164, App
396	27	57.4	326	11	US-11-102-621-49	Sequence 49, Appl	469	27	57.4	330	11	US-11-124-620-1	Sequence 1, Appl
397	27	57.4	326	11	US-11-102-621-50	Sequence 50, Appl	470	27	57.4	330	11	US-11-233-683-1	Sequence 1, Appl
398	27	57.4	326	11	US-11-102-621-51	Sequence 51, Appl	471	27	57.4	330	11	US-11-201-812-155	Sequence 55, Appl
399	27	57.4	326	11	US-11-102-621-52	Sequence 52, Appl	472	27	57.4	330	11	US-11-218-813-136	Sequence 136, App
400	27	57.4	326	11	US-11-102-621-53	Sequence 53, Appl	473	27	57.4	332	9	US-10-895-064-22	Sequence 22, Appl
401	27	57.4	326	11	US-11-102-621-54	Sequence 54, Appl	474	27	57.4	332	11	US-11-129-741-22	Sequence 22, Appl
402	27	57.4	326	11	US-11-102-621-55	Sequence 55, Appl	475	27	57.4	332	11	US-11-122-622-98	Sequence 98, Appl
403	27	57.4	326	11	US-11-102-621-56	Sequence 56, Appl	476	27	57.4	332	11	US-11-096-568A-20663	Sequence 20663, A
404	27	57.4	326	11	US-11-102-621-57	Sequence 57, Appl	477	27	57.4	333	11	US-11-096-568A-31931	Sequence 31931, A
405	27	57.4	326	11	US-11-102-621-58	Sequence 58, Appl	478	27	57.4	334	11	US-11-096-568A-32123	Sequence 32123, A
406	27	57.4	326	11	US-11-102-621-59	Sequence 59, Appl	479	27	57.4	335	11	US-11-024-251-35	Sequence 35, Appl
407	27	57.4	326	11	US-11-102-621-60	Sequence 60, Appl	480	27	57.4	336	11	US-11-188-298-10338	Sequence 10338, A
408	27	57.4	326	11	US-11-102-621-61	Sequence 61, Appl	481	27	57.4	339	9	US-10-999-866-35	Sequence 35, Appl
409	27	57.4	326	11	US-11-102-621-62	Sequence 62, Appl	482	27	57.4	339	9	US-10-935-0058-66	Sequence 66, Appl
410	27	57.4	326	11	US-11-102-621-63	Sequence 63, Appl	483	27	57.4	339	10	US-11-091-234A-35	Sequence 35, Appl
411	27	57.4	326	11	US-11-102-621-64	Sequence 64, Appl	484	27	57.4	339	11	US-11-061-821-35	Sequence 35, Appl
412	27	57.4	326	11	US-11-102-621-65	Sequence 65, Appl	485	27	57.4	341	11	US-11-069-643-4	Sequence 4, Appl
413	27	57.4	326	11	US-11-102-621-66	Sequence 66, Appl	486	27	57.4	343	11	US-11-079-463-7042	Sequence 7042, Ap
414	27	57.4	326	11	US-11-102-621-72	Sequence 72, Appl	487	27	57.4	348	11	US-11-188-298-16753	Sequence 16753, A
415	27	57.4	326	11	US-11-102-621-73	Sequence 73, Appl	488	27	57.4	349	11	US-11-188-298-16453	Sequence 16453, A
416	27	57.4	326	11	US-11-102-621-74	Sequence 74, Appl	489	27	57.4	350	11	US-11-096-568A-4833	Sequence 4833, Ap
417	27	57.4	326	11	US-11-144-222-28	Sequence 28, Appl	490	27	57.4	351	11	US-11-096-568A-9096	Sequence 9096, Ap
418	27	57.4	326	11	US-11-182-343-28	Sequence 28, Appl	491	27	57.4	351	11	US-11-096-568A-9098	Sequence 9098, Ap
419	27	57.4	326	11	US-11-124-620-2	Sequence 2, Appl	492	27	57.4	352	11	US-11-233-683-3	Sequence 3, Appl
420	27	57.4	326	11	US-11-233-683-2	Sequence 2, Appl	493	27	57.4	355	11	US-11-087-059-12419	Sequence 31419, A
421	27	57.4	326	11	US-11-087-099-2404	Sequence 2404, Ap	494	27	57.4	357	11	US-11-096-568A-31466	Sequence 31466, A
422	27	57.4	327	9	US-10-999-866-38	Sequence 38, Appl	495	27	57.4	373	11	US-11-096-568A-12718	Sequence 12718, A
423	27	57.4	327	9	US-10-988-207-22	Sequence 22, Appl	496	27	57.4	375	11	US-11-096-568A-1095	Sequence 1095, A
424	27	57.4	327	9	US-10-493-909-26	Sequence 26, Appl	497	27	57.4	375	11	US-11-188-298-4711	Sequence 4711, Ap
425	27	57.4	327	9	US-10-935-0058-69	Sequence 69, Appl	498	27	57.4	377	9	US-10-999-866-37	Sequence 37, Appl
426	27	57.4	327	10	US-11-091-234A-38	Sequence 38, Appl	499	27	57.4	377	9	US-10-493-909-24	Sequence 24, Appl
427	27	57.4	327	10	US-11-221-902-24	Sequence 24, Appl	500	27	57.4	377	9	US-10-935-0058-68	Sequence 68, Appl
428	27	57.4	327	11	US-11-061-821-38	Sequence 38, Appl	501	27	57.4	377	10	US-11-091-234A-37	Sequence 37, Appl
429	27	57.4	327	11	US-11-102-621-114	Sequence 114, App	502	27	57.4	377	11	US-11-061-821-37	Sequence 37, Appl
430	27	57.4	327	11	US-11-102-621-116	Sequence 116, App	503	27	57.4	377	11	US-11-102-621-113	Sequence 113, App
431	27	57.4	327	11	US-11-102-621-117	Sequence 117, App	504	27	57.4	377	11	US-11-102-621-115	Sequence 115, App
432	27	57.4	327	11	US-11-124-620-4	Sequence 4, Appl	505	27	57.4	377	11	US-11-124-620-3	Sequence 3, Appl
433	27	57.4	327	11	US-11-233-683-4	Sequence 4, Appl	506	27	57.4	377	11	US-11-075-351-12	Sequence 12, Appl
434	27	57.4	328	8	US-10-505-928-191	Sequence 191, App	507	27	57.4	384	11	US-11-075-351-32	Sequence 32, Appl
435	27	57.4	328	9	US-10-988-207-23	Sequence 23, Appl	508	27	57.4	384	11	US-11-172-740-1318	Sequence 1318, Ap
436	27	57.4	328	9	US-10-501-035-368	Sequence 268, App	509	27	57.4	386	10	US-11-302-262-20	Sequence 20, Appl
437	27	57.4	328	11	US-11-169-041-227	Sequence 227, App	510	27	57.4	386	11	US-11-114-922-76	Sequence 76, Appl
438	27	57.4	328	11	US-11-072-173-232	Sequence 232, App	511	27	57.4	386	11	US-11-096-568A-31930	Sequence 31930, A
439	27	57.4	328	11	US-11-188-298-12404	Sequence 12404, A	512	27	57.4	402	11	US-11-024-251-31	Sequence 31, Appl
440	27	57.4	329	11	US-11-122-622-100	Sequence 100, App	513	27	57.4	404	11	US-11-075-351-23	Sequence 23, Appl
441	27	57.4	329	11	US-11-186-422-4	Sequence 4, Appl	514	27	57.4	404	11	US-11-075-351-25	Sequence 25, Appl
442	27	57.4	329	11	US-11-149-309-17	Sequence 17, Appl	515	27	57.4	409	11	US-11-079-463-77554	Sequence 77554, Ap
443	27	57.4	329	11	US-11-155-843-128	Sequence 128, App	516	27	57.4	412	9	US-10-878-556A-149	Sequence 149, App
444	27	57.4	329	11	US-11-155-843-141	Sequence 141, App	517	27	57.4	416	11	US-11-096-568A-12717	Sequence 12717, A
445	27	57.4	330	9	US-10-886-383-6	Sequence 6, Appl	518	27	57.4	417	11	US-11-045-004-169	Sequence 169, App
446	27	57.4	330	9	US-10-493-909-20	Sequence 20, Appl	519	27	57.4	418	11	US-11-096-568A-4832	Sequence 4832, Ap
447	27	57.4	330	9	US-10-982-440-68	Sequence 68, Appl	520	27	57.4	418	11	US-11-096-568A-16380	Sequence 16380, A
448	27	57.4	330	10	US-11-219-563-136	Sequence 136, App	521	27	57.4	418	11	US-11-172-740-743	Sequence 743, App
449	27	57.4	330	10	US-11-221-902-25	Sequence 25, App	522	27	57.4	419	11	US-11-172-740-744	Sequence 744, App
450	27	57.4	330	10	US-11-221-902-85	Sequence 85, Appl	523	27	57.4	420	11	US-11-096-568A-31929	Sequence 31929, A
451	27	57.4	330	10	US-11-221-902-86	Sequence 86, Appl	524	27	57.4	422	11	US-11-096-568A-32122	Sequence 32122, A
452	27	57.4	330	10	US-11-221-902-87	Sequence 87, Appl	525	27	57.4	425	11	US-11-096-568A-27574	Sequence 27574, A
453	27	57.4	330	10	US-11-221-902-88	Sequence 88, Appl	526	27	57.4	428	11	US-11-096-568A-20662	Sequence 20662, A
454	27	57.4	330	10	US-11-221-902-89	Sequence 89, Appl	527	27	57.4	428	11	US-11-172-740-742	Sequence 742, App
455	27	57.4	330	11	US-11-022-289-1	Sequence 1, Appl	528	27	57.4	428	11	US-11-045-004-410	Sequence 410, App
456	27	57.4	330	11	US-11-022-289-11	Sequence 11, Appl	529	27	57.4	430	11	US-11-172-740-739	Sequence 739, App
457	27	57.4	330	11	US-11-075-351-1	Sequence 1, Appl	530	27	57.4	430	11	US-11-172-740-745	Sequence 745, App
458	27	57.4	330	11	US-11-165-141-15	Sequence 15, Appl	531	27	57.4	430	11	US-11-188-298-16029	Sequence 16029, A
459	27	57.4	330	11	US-11-102-621-3	Sequence 3, Appl	532	27	57.4	435	11	US-11-096-568A-4831	Sequence 4831, Ap

533	27	57.4	442	9	US-10-487-324A-12	Sequence 12, Appl	606	27	57.4	451	10	US-11-254-182-71	Sequence 71, Appl
534	27	57.4	442	9	US-10-487-324A-21	Sequence 21, Appl	607	27	57.4	451	10	US-11-254-182-72	Sequence 72, Appl
535	27	57.4	442	11	US-11-102-621-124	Sequence 124, App	608	27	57.4	451	11	US-11-120-338-22	Sequence 22, Appl
536	27	57.4	442	11	US-11-102-621-125	Sequence 125, App	609	27	57.4	451	11	US-11-120-338-25	Sequence 25, Appl
537	27	57.4	442	11	US-11-102-621-126	Sequence 126, App	610	27	57.4	451	11	US-11-102-621-142	Sequence 142, App
538	27	57.4	442	11	US-11-102-621-127	Sequence 127, App	611	27	57.4	451	11	US-11-102-621-143	Sequence 143, App
539	27	57.4	442	11	US-11-102-621-128	Sequence 128, App	612	27	57.4	451	11	US-11-102-621-144	Sequence 144, App
540	27	57.4	442	11	US-11-224-623-12	Sequence 11, Appl	613	27	57.4	451	11	US-11-102-621-145	Sequence 145, App
541	27	57.4	442	11	US-11-194-989-11	Sequence 11, Appl	614	27	57.4	451	11	US-11-102-621-146	Sequence 146, App
542	27	57.4	442	11	US-11-195-207-11	Sequence 11, Appl	615	27	57.4	451	11	US-11-128-900-70	Sequence 70, Appl
543	27	57.4	444	11	US-11-173-320-6	Sequence 6, Appl	616	27	57.4	451	11	US-11-166-906-1	Sequence 33, Appl
544	27	57.4	444	11	US-11-173-969-6	Sequence 6, Appl	617	27	57.4	451	11	US-11-124-620-7	Sequence 5, Appl
545	27	57.4	444	11	US-11-004-590-232	Sequence 232, App	618	27	57.4	451	11	US-11-124-620-5	Sequence 7, Appl
546	27	57.4	444	11	US-11-004-590-233	Sequence 233, App	619	27	57.4	451	11	US-11-143-386-22	Sequence 22, Appl
547	27	57.4	446	11	US-11-102-621-119	Sequence 119, App	620	27	57.4	451	11	US-11-143-386-25	Sequence 25, Appl
548	27	57.4	446	11	US-11-102-621-120	Sequence 120, App	621	27	57.4	451	11	US-11-143-386-29	Sequence 29, Appl
549	27	57.4	446	11	US-11-102-621-121	Sequence 121, App	622	27	57.4	451	11	US-11-187-364-34	Sequence 34, Appl
550	27	57.4	446	11	US-11-102-621-122	Sequence 122, App	623	27	57.4	451	11	US-11-208-422-20	Sequence 20, Appl
551	27	57.4	446	11	US-11-102-621-123	Sequence 123, App	624	27	57.4	451	11	US-11-208-422-21	Sequence 21, Appl
552	27	57.4	446	11	US-11-102-621-123	Sequence 136, App	625	27	57.4	451	11	US-11-208-422-22	Sequence 22, Appl
553	27	57.4	446	11	US-11-102-621-137	Sequence 137, App	626	27	57.4	451	11	US-11-208-422-25	Sequence 25, Appl
554	27	57.4	446	11	US-11-102-621-138	Sequence 138, App	627	27	57.4	451	11	US-11-208-422-26	Sequence 26, Appl
555	27	57.4	446	11	US-11-102-621-139	Sequence 139, App	628	27	57.4	451	11	US-11-208-422-27	Sequence 27, Appl
556	27	57.4	446	11	US-11-102-621-140	Sequence 140, App	629	27	57.4	452	10	US-11-254-182-65	Sequence 65, Appl
557	27	57.4	447	10	US-11-221-902-4	Sequence 4, Appl	630	27	57.4	452	10	US-11-254-182-66	Sequence 66, Appl
558	27	57.4	447	10	US-11-221-902-6	Sequence 6, Appl	631	27	57.4	452	11	US-11-120-338-14	Sequence 14, Appl
559	27	57.4	447	10	US-11-221-902-8	Sequence 8, Appl	632	27	57.4	452	11	US-11-120-338-15	Sequence 15, Appl
560	27	57.4	447	10	US-11-221-902-10	Sequence 10, Appl	633	27	57.4	452	11	US-11-120-338-17	Sequence 17, Appl
561	27	57.4	447	10	US-11-221-902-12	Sequence 12, Appl	634	27	57.4	452	11	US-11-107-028-32	Sequence 32, Appl
562	27	57.4	447	10	US-11-221-902-84	Sequence 84, Appl	635	27	57.4	452	11	US-11-107-028-33	Sequence 33, Appl
563	27	57.4	447	11	US-11-102-621-130	Sequence 130, App	636	27	57.4	452	11	US-11-107-028-43	Sequence 43, Appl
564	27	57.4	447	11	US-11-102-621-131	Sequence 131, App	637	27	57.4	452	11	US-11-107-028-45	Sequence 45, Appl
565	27	57.4	447	11	US-11-102-621-132	Sequence 132, App	638	27	57.4	452	11	US-11-107-028-46	Sequence 46, Appl
566	27	57.4	447	11	US-11-102-621-133	Sequence 133, App	639	27	57.4	452	11	US-11-107-028-47	Sequence 47, Appl
567	27	57.4	447	11	US-11-004-590-230	Sequence 230, App	640	27	57.4	452	11	US-11-106-820-26	Sequence 26, Appl
568	27	57.4	447	11	US-11-004-590-231	Sequence 231, App	641	27	57.4	452	11	US-11-106-820-30	Sequence 30, Appl
569	27	57.4	447	11	US-11-194-989-36	Sequence 36, Appl	642	27	57.4	452	11	US-11-106-820-33	Sequence 33, Appl
570	27	57.4	447	11	US-11-195-207-36	Sequence 36, Appl	643	27	57.4	452	11	US-11-106-820-45	Sequence 45, Appl
571	27	57.4	447	11	US-11-183-218-56	Sequence 56, Appl	644	27	57.4	452	11	US-11-143-386-17	Sequence 17, Appl
572	27	57.4	448	10	US-11-254-182-16	Sequence 16, Appl	645	27	57.4	452	11	US-11-143-386-17	Sequence 17, Appl
573	27	57.4	448	10	US-11-254-182-16	Sequence 16, Appl	646	27	57.4	452	11	US-11-143-386-17	Sequence 17, Appl
574	27	57.4	448	11	US-11-297-317-4	Sequence 8, Appl	647	27	57.4	452	11	US-11-143-386-17	Sequence 17, Appl
575	27	57.4	448	11	US-11-158-505-8	Sequence 8, Appl	648	27	57.4	452	11	US-11-143-386-17	Sequence 17, Appl
576	27	57.4	448	11	US-11-158-505-16	Sequence 16, Appl	649	27	57.4	452	11	US-11-187-364-14	Sequence 14, Appl
577	27	57.4	448	11	US-11-158-505-24	Sequence 24, Appl	650	27	57.4	452	11	US-11-187-364-15	Sequence 15, Appl
578	27	57.4	448	11	US-11-182-908-16	Sequence 32, Appl	651	27	57.4	452	11	US-11-208-422-27	Sequence 27, Appl
579	27	57.4	448	11	US-11-182-908-32	Sequence 32, Appl	652	27	57.4	452	11	US-11-208-422-28	Sequence 28, Appl
580	27	57.4	448	11	US-11-183-205-56	Sequence 56, Appl	653	27	57.4	452	11	US-11-208-422-40	Sequence 40, Appl
581	27	57.4	449	10	US-11-254-182-14	Sequence 14, Appl	654	27	57.4	452	11	US-11-208-422-43	Sequence 43, Appl
582	27	57.4	449	10	US-11-254-182-24	Sequence 24, Appl	655	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
583	27	57.4	449	11	US-11-080-587-6	Sequence 6, Appl	656	27	57.4	452	11	US-11-208-422-46	Sequence 46, Appl
584	27	57.4	449	11	US-11-154-337-15	Sequence 15, Appl	657	27	57.4	452	11	US-11-254-182-44	Sequence 44, Appl
585	27	57.4	449	11	US-11-154-337-17	Sequence 17, Appl	658	27	57.4	453	10	US-11-254-182-44	Sequence 44, Appl
586	27	57.4	449	11	US-11-182-908-14	Sequence 14, Appl	659	27	57.4	453	10	US-11-254-182-44	Sequence 44, Appl
587	27	57.4	449	11	US-11-182-908-24	Sequence 24, Appl	660	27	57.4	453	11	US-11-087-099-7865	Sequence 7865, App
588	27	57.4	449	11	US-11-087-099-1645	Sequence 1645, App	661	27	57.4	453	11	US-11-208-422-23	Sequence 23, Appl
589	27	57.4	449	11	US-11-188-298-1633	Sequence 1833, App	662	27	57.4	453	11	US-11-188-298-7254	Sequence 7254, App
590	27	57.4	450	10	US-11-221-902-2	Sequence 2, Appl	663	27	57.4	454	11	US-11-096-568A-27573	Sequence 4571, App
591	27	57.4	450	11	US-11-025-712-12	Sequence 12, Appl	664	27	57.4	458	11	US-11-087-099-4571	Sequence 9, Appl
592	27	57.4	450	11	US-11-005-726-161	Sequence 161, App	665	27	57.4	462	11	US-11-177-648-9	Sequence 26, Appl
593	27	57.4	450	11	US-11-049-536-701	Sequence 701, App	666	27	57.4	462	11	US-11-177-648-26	Sequence 27, Appl
594	27	57.4	450	11	US-11-199-739-701	Sequence 701, App	667	27	57.4	462	11	US-11-177-648-27	Sequence 28, Appl
595	27	57.4	450	11	US-11-199-739-723	Sequence 723, App	668	27	57.4	462	11	US-11-177-648-28	Sequence 29, Appl
596	27	57.4	450	11	US-11-155-843-176	Sequence 176, App	669	27	57.4	462	11	US-11-177-648-30	Sequence 30, Appl
597	27	57.4	450	11	US-11-045-004-1425	Sequence 1425, App	670	27	57.4	462	11	US-11-177-648-31	Sequence 31, Appl
598	27	57.4	451	9	US-10-923-327-7	Sequence 7, Appl	671	27	57.4	462	11	US-11-177-648-32	Sequence 32, Appl
599	27	57.4	451	9	US-10-923-327-9	Sequence 9, Appl	672	27	57.4	462	11	US-11-177-648-33	Sequence 33, Appl
600	27	57.4	451	9	US-10-923-327-11	Sequence 11, Appl	673	27	57.4	462	11	US-11-177-648-33	Sequence 33, Appl
601	27	57.4	451	10	US-11-254-182-41	Sequence 41, Appl	674	27	57.4	462	11	US-11-177-648-79	Sequence 79, Appl
602	27	57.4	451	10	US-11-254-182-42	Sequence 42, Appl	675	27	57.4	462	11	US-11-177-648-92	Sequence 92, Appl
603	27	57.4	451	10	US-11-254-182-43	Sequence 43, Appl	676	27	57.4	462	11	US-11-177-648-93	Sequence 93, Appl
604	27	57.4	451	10	US-11-254-182-51	Sequence 51, Appl	677	27	57.4	462	11	US-11-177-648-94	Sequence 94, Appl
605	27	57.4	451	10	US-11-254-182-53	Sequence 53, Appl	678	27	57.4	462	11	US-11-177-648-95	Sequence 95, Appl



679	27	57.4	462	11	US-11-177-648-96	Sequence 96, Appl	752	27	57.4	520	11	US-11-188-298-9248	Sequence 9248, Ap
680	27	57.4	462	11	US-11-177-648-97	Sequence 97, Appl	753	27	57.4	524	11	US-11-041-095-58	Sequence 58, Appl
681	27	57.4	462	11	US-11-177-648-98	Sequence 98, Appl	754	27	57.4	526	11	US-11-041-095-10	Sequence 10, Appl
682	27	57.4	462	11	US-11-238-983-2	Sequence 2, Appl1	755	27	57.4	532	11	US-11-184-380-6	Sequence 6, Appl1
683	27	57.4	462	11	US-11-079-463-8189	Sequence 8189, Ap	756	27	57.4	538	11	US-11-079-463-9734	Sequence 9734, Ap
684	27	57.4	463	11	US-11-128-900-1	Sequence 1, Appl1	757	27	57.4	541	11	US-11-096-568A-32068	Sequence 32068, A
685	27	57.4	463	11	US-11-128-900-4	Sequence 4, Appl1	758	27	57.4	548	11	US-11-022-289-3	Sequence 3, Appl1
686	27	57.4	463	11	US-11-128-900-63	Sequence 63, Appl	759	27	57.4	551	11	US-11-022-289-7	Sequence 7, Appl1
687	27	57.4	463	11	US-11-128-900-64	Sequence 64, Appl	760	27	57.4	551	11	US-11-022-289-8	Sequence 8, Appl1
688	27	57.4	463	11	US-11-128-900-68	Sequence 68, Appl	761	27	57.4	557	11	US-11-022-289-2	Sequence 2, Appl1
689	27	57.4	464	10	US-11-219-563-132	Sequence 132, App	762	27	57.4	557	11	US-11-022-289-4	Sequence 4, Appl1
690	27	57.4	464	11	US-11-128-900-2	Sequence 2, Appl1	763	27	57.4	557	11	US-11-022-289-5	Sequence 5, Appl1
691	27	57.4	464	11	US-11-128-900-66	Sequence 66, Appl	764	27	57.4	557	11	US-11-022-289-6	Sequence 6, Appl1
692	27	57.4	464	11	US-11-218-813-132	Sequence 132, App	765	27	57.4	559	11	US-11-096-568A-27572	Sequence 27572, A
693	27	57.4	466	9	US-10-511-989-172	Sequence 172, App	766	27	57.4	560	11	US-11-034-569-6	Sequence 6, Appl1
694	27	57.4	467	10	US-11-254-182-18	Sequence 18, Appl	767	27	57.4	560	11	US-11-194-991-39	Sequence 39, Appl1
695	27	57.4	467	11	US-11-158-505-5	Sequence 5, Appl1	768	27	57.4	562	11	US-11-079-463-5760	Sequence 5760, Ap
696	27	57.4	467	11	US-11-158-505-7	Sequence 7, Appl1	769	27	57.4	564	11	US-11-022-289-10	Sequence 10, Appl
697	27	57.4	467	11	US-11-158-505-13	Sequence 13, Appl	770	27	57.4	573	11	US-11-188-298-1564	Sequence 1564, Ap
698	27	57.4	467	11	US-11-158-505-15	Sequence 15, Appl	771	27	57.4	574	11	US-11-024-958-408	Sequence 408, App
699	27	57.4	467	11	US-11-158-505-21	Sequence 21, Appl	772	27	57.4	579	11	US-11-174-186-41	Sequence 41, Appl
700	27	57.4	467	11	US-11-158-505-23	Sequence 23, Appl	773	27	57.4	588	11	US-11-184-380-5	Sequence 5, Appl1
701	27	57.4	467	11	US-11-158-505-29	Sequence 29, Appl	774	27	57.4	592	11	US-10-016-686-4	Sequence 4, Appl1
702	27	57.4	467	11	US-11-158-505-31	Sequence 31, Appl	775	27	57.4	603	9	US-11-199-821-10	Sequence 10, Appl
703	27	57.4	467	11	US-11-158-505-72	Sequence 72, Appl	776	27	57.4	603	9	US-10-525-907-22	Sequence 22, Appl
704	27	57.4	467	11	US-11-182-908-18	Sequence 18, Appl	777	27	57.4	605	11	US-11-168-298-13167	Sequence 13167, A
705	27	57.4	468	11	US-11-086-289-14	Sequence 14, Appl	778	27	57.4	605	11	US-11-127-877-71	Sequence 71, Appl
706	27	57.4	468	11	US-11-086-289-22	Sequence 22, Appl	779	27	57.4	610	9	US-10-194-487-92	Sequence 92, Appl
707	27	57.4	470	11	US-11-144-248-45	Sequence 45, Appl	780	27	57.4	610	9	US-10-195-883-92	Sequence 92, Appl
708	27	57.4	470	11	US-11-144-248-46	Sequence 46, Appl	781	27	57.4	610	9	US-10-195-888-92	Sequence 92, Appl
709	27	57.4	470	11	US-11-144-248-49	Sequence 49, Appl	782	27	57.4	610	9	US-10-195-888-92	Sequence 92, Appl
710	27	57.4	470	11	US-11-144-222-45	Sequence 45, Appl	783	27	57.4	610	11	US-11-168-298-16248	Sequence 16248, A
711	27	57.4	470	11	US-11-144-222-46	Sequence 46, Appl	784	27	57.4	613	11	US-11-166-994-4	Sequence 4, Appl1
712	27	57.4	470	11	US-11-144-222-49	Sequence 49, Appl	785	27	57.4	622	11	US-11-212-443-185	Sequence 185, App
713	27	57.4	470	11	US-11-086-289-18	Sequence 18, Appl	786	27	57.4	626	11	US-11-050-346-19	Sequence 19, App
714	27	57.4	470	11	US-11-182-343-45	Sequence 45, Appl	787	27	57.4	629	11	US-11-079-463-7386	Sequence 7386, App
715	27	57.4	470	11	US-11-182-343-46	Sequence 46, Appl	788	27	57.4	640	9	US-10-131-828A-368	Sequence 368, App
716	27	57.4	470	11	US-11-182-343-49	Sequence 49, Appl	789	27	57.4	640	9	US-10-917-905-1	Sequence 1, Appl1
717	27	57.4	470	11	US-11-041-095-22	Sequence 22, Appl	790	27	57.4	640	9	US-10-917-905-4	Sequence 4, Appl1
718	27	57.4	470	11	US-11-072-512-3730	Sequence 3730, Ap	791	27	57.4	640	9	US-10-973-115B-368	Sequence 368, App
719	27	57.4	471	11	US-11-086-289-6	Sequence 6, Appl1	792	27	57.4	640	9	US-10-137-873A-368	Sequence 368, App
720	27	57.4	471	11	US-11-106-820-25	Sequence 25, Appl	793	27	57.4	640	9	US-10-152-370-368	Sequence 368, App
721	27	57.4	471	11	US-11-106-820-27	Sequence 27, Appl	794	27	57.4	640	11	US-11-290-153-368	Sequence 368, App
722	27	57.4	471	11	US-11-190-364-22	Sequence 22, Appl	795	27	57.4	641	8	US-10-511-937-2524	Sequence 2524, App
723	27	57.4	471	11	US-11-190-364-23	Sequence 23, Appl	796	27	57.4	641	9	US-10-848-976-1	Sequence 1, Appl1
724	27	57.4	471	11	US-11-147-780-22	Sequence 22, Appl	797	27	57.4	657	9	US-10-957-880-4	Sequence 4, Appl1
725	27	57.4	471	11	US-11-147-780-23	Sequence 23, Appl	798	27	57.4	661	11	US-11-188-298-20346	Sequence 20346, A
726	27	57.4	472	8	US-10-546-594-130	Sequence 130, Appl	799	27	57.4	666	9	US-10-981-356A-25	Sequence 25, Appl
727	27	57.4	472	11	US-11-086-289-12	Sequence 2, Appl1	800	27	57.4	666	9	US-10-981-356A-27	Sequence 27, Appl
728	27	57.4	472	11	US-11-086-289-10	Sequence 10, Appl	801	27	57.4	666	9	US-10-981-356A-28	Sequence 28, Appl
729	27	57.4	473	11	US-11-144-248-50	Sequence 50, Appl	802	27	57.4	666	9	US-10-981-356A-29	Sequence 29, Appl
730	27	57.4	473	11	US-11-144-222-50	Sequence 50, Appl	803	27	57.4	666	9	US-10-981-356A-30	Sequence 30, Appl
731	27	57.4	473	11	US-11-182-343-50	Sequence 50, Appl	804	27	57.4	666	11	US-11-096-046-27	Sequence 27, Appl
732	27	57.4	474	11	US-11-000-463-284	Sequence 284, App	805	27	57.4	667	11	US-11-096-046-25	Sequence 25, Appl
733	27	57.4	475	11	US-11-041-095-16	Sequence 16, Appl	806	27	57.4	667	11	US-11-096-046-28	Sequence 28, Appl
734	27	57.4	476	11	US-11-139-449-4	Sequence 16, Appl1	807	27	57.4	667	11	US-11-096-046-29	Sequence 29, Appl
735	27	57.4	476	11	US-11-139-499-12	Sequence 12, Appl1	808	27	57.4	667	11	US-11-096-046-30	Sequence 30, Appl
736	27	57.4	477	11	US-11-000-463-395	Sequence 395, App	809	27	57.4	669	9	US-10-997-201A-30	Sequence 30, Appl
737	27	57.4	478	11	US-11-139-499-8	Sequence 8, Appl1	810	27	57.4	676	11	US-11-094-399-289	Sequence 289, App
738	27	57.4	478	11	US-11-072-512-3812	Sequence 3812, Ap	811	27	57.4	676	11	US-11-004-399-3931	Sequence 3931, Ap
739	27	57.4	489	11	US-11-072-512-3329	Sequence 3329, Ap	812	27	57.4	682	11	US-11-079-463-7946	Sequence 7946, Ap
740	27	57.4	490	11	US-11-188-298-20920	Sequence 20920, A	813	27	57.4	692	9	US-10-981-356A-26	Sequence 26, Appl
741	27	57.4	492	11	US-11-087-099-4767	Sequence 4767, Ap	814	27	57.4	694	11	US-11-004-399-3207	Sequence 3207, Appl
742	27	57.4	500	11	US-11-087-099-3488	Sequence 3488, Ap	815	27	57.4	724	11	US-11-096-046-26	Sequence 26, Appl
743	27	57.4	502	11	US-11-098-668A-10506	Sequence 10506, A	816	27	57.4	724	11	US-10-873-632A-16	Sequence 16, Appl1
744	27	57.4	507	11	US-11-096-568A-6960	Sequence 6960, Ap	817	27	57.4	724	11	US-11-184-380-4	Sequence 4, Appl1
745	27	57.4	513	11	US-11-087-099-8601	Sequence 8601, Ap	818	27	57.4	724	11	US-11-145-035-36	Sequence 36, Appl
746	27	57.4	513	11	US-11-188-298-17267	Sequence 17267, A	819	27	57.4	745	11	US-11-143-866-2	Sequence 2, Appl1
747	27	57.4	515	11	US-11-096-568A-6959	Sequence 6959, Ap	820	27	57.4	745	11	US-11-079-463-8524	Sequence 8524, Ap
748	27	57.4	517	11	US-11-096-568A-6958	Sequence 6958, Ap	821	27	57.4	749	9	US-10-936-447-6	Sequence 6, Appl1
749	27	57.4	520	11	US-11-087-099-2137	Sequence 2137, Ap	822	27	57.4	761	11	US-11-087-099-8791	Sequence 8791, Ap
750	27	57.4	520	11	US-11-087-099-5442	Sequence 5442, Ap	823	27	57.4	784	11	US-11-188-298-2774	Sequence 2774, Ap
751	27	57.4	520	11	US-11-188-298-1233	Sequence 1233, Ap	824	27	57.4	808	11	US-11-072-512-3401	Sequence 3401, Ap



825	27	57.4	813	11	US-11-096-568A-31851	Sequence 31851, A	898	26	55.3	205	11	US-11-079-463-10375	Sequence 10375, A
826	27	57.4	819	11	US-11-045-004-778	Sequence 778, App	899	26	55.3	206	11	US-11-188-298-1690	Sequence 1690, App
827	27	57.4	835	11	US-11-188-298-13295	Sequence 13295, A	900	26	55.3	211	11	US-11-087-099-10626	Sequence 10626, A
828	27	57.4	843	11	US-11-188-298-21601	Sequence 21601, A	901	26	55.3	220	11	US-11-096-568A-32764	Sequence 32764, A
829	27	57.4	851	11	US-11-098-686-10894	Sequence 10894, A	902	26	55.3	223	11	US-11-096-568A-8114	Sequence 8114, App
830	27	57.4	851	11	US-11-096-568A-31850	Sequence 31850, A	903	26	55.3	230	11	US-11-264-096-1164	Sequence 1164, App
831	27	57.4	860	11	US-11-079-463-9959	Sequence 9959, App	904	26	55.3	233	11	US-11-045-004-1902	Sequence 1902, App
832	27	57.4	864	11	US-11-050-346-10	Sequence 10, App1	905	26	55.3	239	11	US-11-096-568A-4049	Sequence 4049, App
833	27	57.4	864	11	US-11-103-077-29	Sequence 29, App1	906	26	55.3	241	9	US-10-987-663-8	Sequence 8, App1
834	27	57.4	871	11	US-11-087-099-6053	Sequence 6053, App	907	26	55.3	244	11	US-11-096-568A-20188	Sequence 20188, A
835	27	57.4	902	11	US-11-096-568A-31849	Sequence 31849, App	908	26	55.3	246	11	US-11-096-568A-4048	Sequence 4048, App
836	27	57.4	948	11	US-11-079-463-10195	Sequence 10195, A	909	26	55.3	251	11	US-11-033-039-777	Sequence 777, App
837	27	57.4	972	8	US-11-177-894-17	Sequence 17, App1	910	26	55.3	251	11	US-11-096-568A-20564	Sequence 20564, A
838	27	57.4	976	8	US-10-511-937-2423	Sequence 2423, App	911	26	55.3	254	11	US-11-188-298-4554	Sequence 4554, A
839	27	57.4	976	11	US-11-148-770-31	Sequence 31, App1	912	26	55.3	261	11	US-11-188-298-17162	Sequence 17162, A
840	27	57.4	976	11	US-11-177-894-15	Sequence 15, App1	913	26	55.3	262	11	US-11-188-298-2328	Sequence 2328, App
841	27	57.4	976	11	US-11-177-894-16	Sequence 16, App1	914	26	55.3	263	11	US-11-188-298-20368	Sequence 20368, A
842	27	57.4	976	11	US-11-177-894-19	Sequence 19, App1	915	26	55.3	267	11	US-11-072-512-2248	Sequence 2248, App
843	27	57.4	976	11	US-11-177-894-20	Sequence 20, App1	916	26	55.3	272	11	US-11-096-568A-20187	Sequence 20187, A
844	27	57.4	976	11	US-11-177-894-21	Sequence 21, App1	917	26	55.3	273	11	US-11-045-004-2163	Sequence 2163, App
845	27	57.4	976	11	US-11-154-287-1	Sequence 1, App1	918	26	55.3	277	11	US-11-188-298-22441	Sequence 22441, A
846	27	57.4	976	11	US-11-154-287-1	Sequence 1, App1	919	26	55.3	283	11	US-11-080-991-80	Sequence 80, App1
847	27	57.4	976	11	US-11-154-287-1	Sequence 1, App1	920	26	55.3	284	11	US-11-096-568A-4047	Sequence 4047, App
848	27	57.4	987	11	US-11-052-354A-153	Sequence 153, App	921	26	55.3	289	9	US-10-987-663-2	Sequence 2, App1
849	27	57.4	1049	11	US-11-137-465-42	Sequence 42, App1	922	26	55.3	293	11	US-11-264-096-1165	Sequence 1165, App
850	27	57.4	1052	8	US-10-497-088-21	Sequence 21, App1	923	26	55.3	295	9	US-10-987-663-10	Sequence 10, App1
851	27	57.4	1062	11	US-11-137-465-43	Sequence 43, App1	924	26	55.3	301	9	US-10-131-826A-176	Sequence 176, App
852	27	57.4	1102	11	US-11-079-463-7438	Sequence 7438, App	925	26	55.3	301	9	US-10-973-115B-176	Sequence 176, App
853	27	57.4	1255	9	US-10-942-699-4	Sequence 4, App1	926	26	55.3	301	9	US-10-137-873A-176	Sequence 176, App
854	27	57.4	1255	11	US-11-052-352-235	Sequence 235, App	927	26	55.3	301	11	US-11-290-153-176	Sequence 176, App
855	27	57.4	1255	11	US-11-052-354A-265	Sequence 265, App	928	26	55.3	301	11	US-11-264-096-176	Sequence 8, App1
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857	27	57.4	1255	11	US-11-052-354A-267	Sequence 267, App	930	26	55.3	310	9	US-10-838-616-24	Sequence 11005, A
858	27	57.4	1255	11	US-11-052-354A-268	Sequence 268, App	931	26	55.3	310	11	US-11-087-099-11105	Sequence 11105, A
859	27	57.4	1255	11	US-11-052-354A-269	Sequence 269, App	932	26	55.3	311	11	US-11-096-568A-18292	Sequence 18292, A
860	27	57.4	1255	11	US-11-052-354A-270	Sequence 270, App	933	26	55.3	314	11	US-11-079-463-5833	Sequence 5833, App
861	27	57.4	1255	11	US-11-052-354A-271	Sequence 271, App	934	26	55.3	314	11	US-11-188-298-6213	Sequence 6213, App
862	27	57.4	1255	11	US-11-052-354A-272	Sequence 272, App	935	26	55.3	316	11	US-11-188-298-8739	Sequence 8739, App
863	27	57.4	1255	11	US-11-052-354A-273	Sequence 273, App	936	26	55.3	318	11	US-11-230-251-59	Sequence 29, App1
864	27	57.4	1255	11	US-11-052-354A-274	Sequence 274, App	937	26	55.3	323	11	US-11-156-084-336	Sequence 336, App
865	27	57.4	1255	11	US-11-052-354A-275	Sequence 275, App	938	26	55.3	325	11	US-11-052-354A-356	Sequence 356, App
866	27	57.4	1255	11	US-11-052-354A-276	Sequence 276, App	939	26	55.3	327	11	US-11-188-298-1545	Sequence 1545, App
867	27	57.4	1257	11	US-11-004-399-4026	Sequence 4026, App	940	26	55.3	328	11	US-11-079-463-8715	Sequence 8715, App
868	27	57.4	1263	9	US-10-330-773-539	Sequence 539, App	941	26	55.3	328	11	US-10-131-826A-386	Sequence 386, App
869	27	57.4	1279	8	US-10-957-080-3	Sequence 3, App1	942	26	55.3	332	9	US-10-137-873A-386	Sequence 386, App
870	27	57.4	1342	8	US-10-497-088-14	Sequence 14, App1	943	26	55.3	332	9	US-10-216-161A-216	Sequence 216, App
871	27	57.4	1343	11	US-11-052-354A-284	Sequence 284, App	944	26	55.3	332	9	US-10-137-873A-386	Sequence 386, App
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887	27	57.4	1343	11	US-11-052-354A-284	Sequence 284, App	960	26	55.3	332	9	US-10-137-873A-386	Sequence 386, App
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971 26 55.3 359 11 US-11-188-298-7670 Sequence 7670, Ap
972 26 55.3 360 11 US-11-096-568A-27737 Sequence 27737, A
973 26 55.3 361 9 US-10-995-561-612 Sequence 612, App
974 26 55.3 361 11 US-11-130-206-6 Sequence 6, Appl1
975 26 55.3 369 11 US-11-188-298-5546 Sequence 5546, Ap
976 26 55.3 370 11 US-11-087-099-2444 Sequence 2444, Ap
977 26 55.3 370 11 US-11-188-298-13429 Sequence 13429, A
978 26 55.3 375 9 US-10-667-295-119 Sequence 119, App
979 26 55.3 376 11 US-11-188-298-1836 Sequence 1836, Ap
980 26 55.3 377 11 US-11-188-298-15744 Sequence 15744, A
981 26 55.3 378 9 US-10-507-720-16 Sequence 16, Appl1
982 26 55.3 381 11 US-11-188-298-2047 Sequence 2047, Ap
983 26 55.3 388 11 US-11-188-298-6784 Sequence 6784, Ap
984 26 55.3 388 11 US-11-188-298-8274 Sequence 8274, Ap
985 26 55.3 388 11 US-11-188-298-1263 Sequence 1263, A
986 26 55.3 389 11 US-11-188-298-572 Sequence 572, App
987 26 55.3 389 11 US-11-188-298-1874 Sequence 1874, Ap
988 26 55.3 389 11 US-11-188-298-13470 Sequence 13470, A
989 26 55.3 389 11 US-11-188-298-21334 Sequence 21334, A
990 26 55.3 392 9 US-10-921-793-40 Sequence 40, Appl1
991 26 55.3 392 9 US-10-931-198-40 Sequence 40, Appl1
992 26 55.3 392 9 US-10-942-042-40 Sequence 40, Appl1
993 26 55.3 392 11 US-11-188-298-16056 Sequence 16056, A
994 26 55.3 394 11 US-11-096-568A-27736 Sequence 27736, A
995 26 55.3 395 9 US-10-995-561-614 Sequence 614, App
996 26 55.3 397 11 US-11-188-298-2181 Sequence 2181, Ap
997 26 55.3 407 9 US-10-517-939-12 Sequence 12, Appl1
998 26 55.3 418 11 US-11-188-298-17927 Sequence 17927, A
999 26 55.3 422 9 US-10-873-528-25 Sequence 25, Appl1
1000 26 55.3 422 11 US-11-079-463-6706 Sequence 6706, Ap
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## ALIGNMENTS

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RESULT 1
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasecchi, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match 100.0%; Score 47; DB 9; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LNTNTGLYNL 9
DB 93 LNTNTGLYNL 101
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RESULT 2
US-10-530-061-1664
; Sequence 1664, Application US/10530061
; Publication No. US20060079453A1
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; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1664
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1664

Query Match 80.9%; Score 38; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 3 NTGTYNL 9
DB 1 NTGTYNL 7
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RESULT 3
US-10-530-061-45
; Sequence 45, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-45
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Query Match 78.7%; Score 37; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LNTNTGLY 7
DB 5 LNTNTGLY 11
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RESULT 4
US-10-530-061-50
; Sequence 50, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
```

```
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 50
LENGTH: 11
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-50
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Query Match          78.7%; Score 37; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LTNGLY 7
    |||||
Db 5 LTNGLY 11
```

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RESULT 5
US-10-530-061-111
Sequence 111, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 111
LENGTH: 11
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-111
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Query Match          78.7%; Score 37; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LTNGLY 7
    |||||
Db 5 LTNGLY 11
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RESULT 6
US-10-530-253-19
Sequence 19, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
```

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FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 19
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 39
US-10-530-253-19
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Query Match          78.7%; Score 37; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 3.5;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY 1 LTNGLYNL 9
    :|||
Db 93 ITNGLYNL 101
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RESULT 7
US-10-530-253-20
Sequence 20, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 20
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 45
US-10-530-253-20
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Query Match          78.7%; Score 37; DB 9; Length 158;
Best Local Similarity 77.8%; Pred. No. 3.5;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY 1 LTNGLYNL 9
    :|||
Db 93 ITNGLYNL 101
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RESULT 8
US-10-530-253-26
Sequence 26, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
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PRIOR APPLICATION NUMBER: US 60/415,929  
PRIOR FILING DATE: 2002-10-03  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO: 26  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Human papillomavirus type 68  
US-10-530-253-26

Query Match 78.7%; Score 37; DB 9; Length 158;  
Best Local Similarity 77.8%; Pred. No. 3.5;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGTYNL 9  
Db 93 ITNTKLYNL 101

RESULT 9  
US-11-052-554A-134  
Sequence 134, Application US/11052554A  
Publication No. US20050288866A1  
GENERAL INFORMATION:  
APPLICANT: Sachdeva, et al.  
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
FILE REFERENCE: 30853/40359A  
CURRENT FILING DATE: 2005-02-07  
PRIOR FILING DATE: 2004-07-20  
PRIOR APPLICATION NUMBER: US 60/589,227  
PRIOR FILING DATE: 2004-02-06  
NUMBER OF SEQ ID NOS: 763  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 134  
LENGTH: 2204  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis H37Rv  
US-11-052-554A-134

Query Match 74.5%; Score 35; DB 11; Length 2204;  
Best Local Similarity 85.7%; Pred. No. 1.5e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
Db 242 TMTGLFN 248

RESULT 10  
US-11-052-554A-141  
Sequence 141, Application US/11052554A  
Publication No. US20050288866A1  
GENERAL INFORMATION:  
APPLICANT: Sachdeva, et al.  
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
FILE REFERENCE: 30853/40359A  
CURRENT FILING DATE: 2005-02-07  
PRIOR FILING DATE: 2004-07-20  
PRIOR APPLICATION NUMBER: US 60/589,227  
PRIOR FILING DATE: 2004-02-06  
NUMBER OF SEQ ID NOS: 763  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 141  
LENGTH: 3716  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis H37Rv  
US-11-052-554A-141

Query Match 74.5%; Score 35; DB 11; Length 3716;  
Best Local Similarity 85.7%; Pred. No. 2.5e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
Db 2173 TMTGLFN 2179

RESULT 11  
US-11-072-512-3590  
Sequence 3590, Application US/11072512  
Publication No. US20060029945A1  
GENERAL INFORMATION:  
APPLICANT: ISOGAI, TAKAO  
APPLICANT: SUGIYAMA, TOMOYASU  
APPLICANT: OTSUKI, TETSUJI  
APPLICANT: WAKAMATSU, AI  
APPLICANT: SATO, HIROYUKI  
APPLICANT: ISHII, SHIZUKO  
APPLICANT: YAMAMOTO, JUN-ICHI  
APPLICANT: ISONO, YUUKO  
APPLICANT: HIO, YURI  
APPLICANT: OTSUKA, KAORU  
APPLICANT: NAGAI, KEIICHI  
APPLICANT: IRIE, RYOTARO  
APPLICANT: TAMECHIKA, ICHIRO  
APPLICANT: SEKI, NAOHIKO  
APPLICANT: YOSHIKAWA, TSUTOMU  
APPLICANT: OTSUKA, MOTOKYUKI  
APPLICANT: NAGAHARI, KENJI  
APPLICANT: MASUHO, YASUHIKO  
TITLE OF INVENTION: Novel full length cDNA  
FILE REFERENCE: 084335-0191  
CURRENT FILING DATE: 2005-03-07  
PRIOR FILING DATE: 2002-01-25  
PRIOR APPLICATION NUMBER: US 60/350,978  
PRIOR FILING DATE: 2001-11-05  
NUMBER OF SEQ ID NOS: 4096  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3590  
LENGTH: 258  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-072-512-3590

Query Match 72.3%; Score 34; DB 11; Length 258;  
Best Local Similarity 85.7%; Pred. No. 23;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGTYNL 9  
Db 57 NTGTYNL 63

RESULT 12  
US-11-087-099-731  
Sequence 731, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 731  
LENGTH: 326  
TYPE: PRT  
ORGANISM: Streptomyces coelicolor A3(2)  
US-11-087-099-731

US-11-087-099-731

Query Match  
Best Local Similarity 72.3%; Score 34; DB 11; Length 326;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LNTGLYNYL 9  
Db 179 LVDTGVNYL 187

RESULT 13  
US-10-878-556A-132  
Sequence 132, Application US/10878556A  
Publication No. US20050266399A1  
GENERAL INFORMATION:

APPLICANT: Hoffmann La-Roche Inc.  
TITLE OF INVENTION: HCV regulated protein expression  
FILE REFERENCE: 21762  
CURRENT APPLICATION NUMBER: US/10/878,556A  
CURRENT FILING DATE: 2004-06-28  
NUMBER OF SEQ ID NOS: 199  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 132  
LENGTH: 688  
TYPE: PRT  
ORGANISM: Homo sapiens  
PUBLICATION INFORMATION:  
DATABASE ACCESSION NUMBER: sw\_hum/mepd\_human  
DATABASE ENTRY DATE: 1996-10-01  
US-10-878-556A-132

Query Match  
Best Local Similarity 72.3%; Score 34; DB 9; Length 688;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGLYNYL 9  
Db 545 NTGLFNYL 551

RESULT 14  
US-11-079-463-7664  
Sequence 7664, Application US/11079463  
Publication No. US20060073161A1  
GENERAL INFORMATION:

APPLICANT: Gary L. Breton  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR  
FILE REFERENCE: PATH00-03DIV2  
CURRENT APPLICATION NUMBER: US/11/079,463  
CURRENT FILING DATE: 2005-03-14  
PRIOR APPLICATION NUMBER: US 60/128,705  
PRIOR FILING DATE: 1999-04-09  
PRIOR APPLICATION NUMBER: US 09/540,209  
PRIOR FILING DATE: 2000-04-04  
NUMBER OF SEQ ID NOS: 10444  
SEQ ID NO 7664  
LENGTH: 389  
TYPE: PRT  
ORGANISM: B. fragilis  
US-11-079-463-7664

Query Match  
Best Local Similarity 70.2%; Score 33; DB 11; Length 389;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TMTGLYN 8  
Db 264 TMTGLYN 270

RESULT 15

US-11-188-298-1813

Sequence 1813, Application US/11188298  
Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 1813  
LENGTH: 407  
TYPE: PRT  
ORGANISM: Pyrobaculum aerophilum str. IM2  
US-11-188-298-1813

Query Match  
Best Local Similarity 70.2%; Score 33; DB 11; Length 407;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGLYNYL 9  
Db 181 LVNTGLYNYL 189

RESULT 16  
US-11-127-817-16  
Sequence 16, Application US/11127817  
Publication No. US20050287519A1  
GENERAL INFORMATION:

APPLICANT: Merchlers, Pascal G.  
APPLICANT: Hoffmann, Marcel  
APPLICANT: Spittaels, Koenraad F. F.  
APPLICANT: Laenen, Wendy  
TITLE OF INVENTION: Methods, Compositions And Compound Assays For Inhibiting  
FILE REFERENCE: P27,800-D USA  
CURRENT APPLICATION NUMBER: US/11/127,817  
CURRENT FILING DATE: 2005-05-12  
PRIOR APPLICATION NUMBER: 60/570,352  
PRIOR FILING DATE: 2004-05-12  
PRIOR APPLICATION NUMBER: 60/603,948  
PRIOR FILING DATE: 2004-08-24  
NUMBER OF SEQ ID NOS: 534  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 16  
LENGTH: 567  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-127-817-16

Query Match  
Best Local Similarity 70.2%; Score 33; DB 11; Length 567;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGLYNYL 9  
Db 354 VTNKGYNL 362

RESULT 17  
US-11-129-741-2939  
Sequence 2939, Application US/11129741  
Publication No. US20060034853A1  
GENERAL INFORMATION:

APPLICANT: YUEN, KWOK YUNG  
APPLICANT: WOO, CHIU YAT PATRICK  
APPLICANT: LAU, KAR PUI SUSANNA  
APPLICANT: CHAN, KWOK HUNG  
APPLICANT: POON, LIT MAN  
APPLICANT: PEIRIS, JOSEPH S.M.

```
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2939
LENGTH: 1356
TYPE: PRT
ORGANISM: Homo sapiens
US-11-129-741-2939
```

```
Query Match      70.2% Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 18
US-11-129-741-2941
Sequence 2941, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2941
LENGTH: 1356
TYPE: PRT
ORGANISM: Corononnavirus-HKU1
US-11-129-741-2941
```

```
Query Match      70.2% Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 19
US-11-129-741-2943
Sequence 2943, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
```

```
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2943
LENGTH: 1356
TYPE: PRT
ORGANISM: Corononnavirus-HKU1
US-11-129-741-2943
```

```
Query Match      70.2% Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 20
US-11-129-741-2945
Sequence 2945, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
FILE REFERENCE: V0690.0044
CURRENT FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2945
LENGTH: 1356
TYPE: PRT
ORGANISM: Corononnavirus-HKU1
US-11-129-741-2945
```

```
Query Match      70.2% Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LTNGLYNL 9
Db 298 LPNTGYDL 306
```

```
RESULT 21
US-11-129-741-2949
Sequence 2949, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
APPLICANT: GUAN, YI
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
```

```
;; TITLE OF INVENTION: INFECTION AND USES THEREOF
;; FILE REFERENCE: V0690.0044
;; CURRENT APPLICATION NUMBER: US/11/129,741
;; CURRENT FILING DATE: 2005-05-16
;; PRIOR APPLICATION NUMBER: 10/895,064
;; PRIOR FILING DATE: 2004-07-21
;; NUMBER OF SEQ ID NOS: 4257
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 2949
;; LENGTH: 1356
;; TYPE: PRT
;; ORGANISM: Corononavirns-HKU1
US-11-129-741-2949
```

```
Query Match          70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 298 LPNTGYDL 306
```

```
RESULT 22
US-11-129-741-2951
; Sequence 2951, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: WOO, CHIU YAT PATRICK
; APPLICANT: LAU, KAR PUI SUSANNA
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: PEIRIS, JOSEPH S.M.
; APPLICANT: GUAN, YI
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
; TITLE OF INVENTION: INFECTION AND USES THEREOF
; FILE REFERENCE: V0690.0044
; CURRENT APPLICATION NUMBER: US/11/129,741
; CURRENT FILING DATE: 2005-05-16
; PRIOR APPLICATION NUMBER: 10/895,064
; PRIOR FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 4257
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2951
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Corononavirns-HKU1
US-11-129-741-2951
```

```
Query Match          70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 298 LPNTGYDL 306
```

```
RESULT 23
US-11-129-741-4245
; Sequence 4245, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: WOO, CHIU YAT PATRICK
; APPLICANT: LAU, KAR PUI SUSANNA
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: PEIRIS, JOSEPH S.M.
; APPLICANT: GUAN, YI
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
; TITLE OF INVENTION: INFECTION AND USES THEREOF
```

```
;; FILE REFERENCE: V0690.0044
;; CURRENT APPLICATION NUMBER: US/11/129,741
;; CURRENT FILING DATE: 2005-05-16
;; PRIOR APPLICATION NUMBER: 10/895,064
;; PRIOR FILING DATE: 2004-07-21
;; NUMBER OF SEQ ID NOS: 4257
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 4245
;; LENGTH: 1356
;; TYPE: PRT
;; ORGANISM: Corononavirns-HKU1
US-11-129-741-4245
```

```
Query Match          70.2%; Score 33; DB 11; Length 1356;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 298 LPNTGYDL 306
```

```
RESULT 24
US-10-895-064-420
; Sequence 420, Application US/10895064
; Publication No. US20060018923A1
; GENERAL INFORMATION:
; APPLICANT: PEIRIS, JOSEPH S.M.
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: GUAN, YI
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: NICHOLS, JOHN M.
; APPLICANT: LEUNG, FREDERICK C.
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT INFECTION AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: V0690.0031
; CURRENT APPLICATION NUMBER: US/10/895,064
; CURRENT FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 2918
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 420
; LENGTH: 1362
; TYPE: PRT
; ORGANISM: Corononavirns-HKU1
US-10-895-064-420
```

```
Query Match          70.2%; Score 33; DB 9; Length 1362;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 LNTGTYNL 9
    |||:|:|
Db 304 LPNTGYDL 312
```

```
RESULT 25
US-11-129-741-420
; Sequence 420, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: WOO, CHIU YAT PATRICK
; APPLICANT: LAU, KAR PUI SUSANNA
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: PEIRIS, JOSEPH S.M.
; APPLICANT: GUAN, YI
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
; TITLE OF INVENTION: INFECTION AND USES THEREOF
; FILE REFERENCE: V0690.0044
; CURRENT APPLICATION NUMBER: US/11/129,741
; CURRENT FILING DATE: 2005-05-16
```

PRIOR APPLICATION NUMBER: 10/895,064  
PRIOR FILING DATE: 2004-07-21  
NUMBER OF SEQ ID NOS: 4257  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 420  
LENGTH: 1362  
TYPE: PRT  
ORGANISM: Corononavirus-HKU1  
US-11-129-741-420

Query Match 70.2%; Score 33; DB 11; Length 1362;  
Best Local Similarity 66.7%; Pred. No. 2.2e+02;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LNTGLYNL 9  
Db 304 LPNTGYDL 312

RESULT 26  
US-11-052-554A-133  
Sequence 133, Application US/11052554A  
Publication No. US20050288866A1  
GENERAL INFORMATION:  
APPLICANT: Sachdeva, et al.  
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE  
FILE REFERENCE: 30853/40359A  
CURRENT APPLICATION NUMBER: US/11/052,554A  
CURRENT FILING DATE: 2005-02-07  
PRIOR APPLICATION NUMBER: US 60/589,227  
PRIOR FILING DATE: 2004-07-20  
PRIOR APPLICATION NUMBER: IN 173/DEL/2004  
PRIOR FILING DATE: 2004-02-06  
NUMBER OF SEQ ID NOS: 763  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 133  
LENGTH: 3300  
TYPE: PRT  
ORGANISM: Mycobacterium tuberculosis H37RV  
US-11-052-554A-133

Query Match 70.2%; Score 33; DB 11; Length 3300;  
Best Local Similarity 65.7%; Pred. No. 5.6e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TMTGLYN 8  
Db 772 TMTGSYN 778

RESULT 27  
US-10-963-439-15  
Sequence 15, Application US/10963439  
Publication No. US20060079444A1  
GENERAL INFORMATION:  
APPLICANT: Ron, Dina  
TITLE OF INVENTION: HUMAN SEF ISOFORMS AND METHODS OF USING SAME FOR CANCER GENE  
FILE REFERENCE: 28385  
CURRENT APPLICATION NUMBER: US/10/963,439  
CURRENT FILING DATE: 2004-10-11  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 15  
LENGTH: 77  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-963-439-15

Query Match 68.1%; Score 32; DB 9; Length 77;  
Best Local Similarity 71.4%; Pred. No. 16;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
Db 57 NSGLYNI 63

RESULT 28  
US-10-963-439-14  
Sequence 14, Application US/10963439  
Publication No. US20060079444A1  
GENERAL INFORMATION:  
APPLICANT: Ron, Dina  
TITLE OF INVENTION: HUMAN SEF ISOFORMS AND METHODS OF USING SAME FOR CANCER GENE  
FILE REFERENCE: 28385  
CURRENT APPLICATION NUMBER: US/10/963,439  
CURRENT FILING DATE: 2004-10-11  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 14  
LENGTH: 115  
TYPE: PRT  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Partial predicted amino acid sequence of hsef-d  
US-10-963-439-14

Query Match 68.1%; Score 32; DB 9; Length 115;  
Best Local Similarity 71.4%; Pred. No. 25;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
Db 78 NSGLYNI 84

RESULT 29  
US-11-045-004-2620  
Sequence 2620, Application US/11045004  
Publication No. US20060078901A1  
GENERAL INFORMATION:  
APPLICANT: BUCHRISSER, CARMEN  
APPLICANT: FRANGUL, LIONEL  
APPLICANT: COVE, ELISABETH  
APPLICANT: RUSNIOK, CHRISTOPHE  
APPLICANT: FSIHI, HAÏDA  
APPLICANT: DEHOUD, PIERRE  
APPLICANT: DUSURGET, OLIVIER  
APPLICANT: CHETOUANI, FARID  
APPLICANT: MEDJARI, HAFED  
APPLICANT: GLASER, PHILIPPE  
APPLICANT: KUNST, FRANCK  
APPLICANT: COSSART, PASCAL  
APPLICANT: DANIELS, JUSTIN  
APPLICANT: GOEBEL, WERNER  
APPLICANT: KREFT, JURGEN  
APPLICANT: KUHN, MICHAEL  
APPLICANT: NG, EVA  
APPLICANT: VAZQUEZ-BOLAND, ANTONIO  
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO  
APPLICANT: GARRIDO-GARCIA, PATRICIA  
APPLICANT: TIERREZ-MARTINEZ, ALBERTO  
APPLICANT: AMEND, ALEXANDRA  
APPLICANT: CHAKRABORTY, TRINAD  
APPLICANT: DOMANN, EUGEN  
APPLICANT: HAIN, THORSTEN  
APPLICANT: BERGE, PATRICK  
APPLICANT: CHARBIT, ALAIN  
APPLICANT: DURANT, LIONEL  
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA



```
APPLICANT: MADUENIO, ENCARNIA
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMOT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2620
LENGTH: 294
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-2620

Query Match      68.1%; Score 32; DB 11; Length 294;
Best Local Similarity 100.0%; Pred. NO. 67;
Matches 6; Conservative 0; Indels 0; Gaps 0;

QY      4 TGLYNL 9
      |||||
Db      224 TGLYNL 229

RESULT 30
US-11-188-298-16697
Sequence 16697, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 16697
LENGTH: 304
TYPE: PRT
ORGANISM: Burkholderia fungorum
US-11-188-298-16697

Query Match      68.1%; Score 32; DB 11; Length 304;
Best Local Similarity 75.0%; Pred. NO. 69;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 THTGLYNL 9
      |||||
Db      296 THTGLYNL 303

RESULT 31
US-11-079-463-7583
Sequence 7583, Application US/11079463
Publication No. US20060073161A1
GENERAL INFORMATION:
APPLICANT: Gary L. Breton
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES PRO
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
```

```
FILE REFERENCE: PATH00-03DIV2
CURRENT APPLICATION NUMBER: US/11/079,463
CURRENT FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/128,705
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/540,209
PRIOR FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 10444
SEQ ID NO 7583
LENGTH: 396
TYPE: PRT
ORGANISM: B.fragilis
US-11-079-463-7583

Query Match      68.1%; Score 32; DB 11; Length 396;
Best Local Similarity 66.7%; Pred. NO. 92;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 LHTNGLYNL 9
      |||||
Db      218 LHTNGLYNL 226

RESULT 32
US-11-052-554A-168
Sequence 168, Application US/11052554A
Publication No. US20050288866A1
GENERAL INFORMATION:
APPLICANT: Sachdeva, et al.
TITLE OF INVENTION: COMPUTATIONAL METHOD FOR IDENTIFYING ADHESIN AND ADHESIN-LIKE
TITLE OF INVENTION: PROTEINS OF THERAPEUTIC POTENTIAL
FILE REFERENCE: 30853/40359A
CURRENT APPLICATION NUMBER: US/11/052,554A
CURRENT FILING DATE: 2005-02-07
PRIOR APPLICATION NUMBER: US 60/589,227
PRIOR FILING DATE: 2004-07-20
PRIOR APPLICATION NUMBER: IN 173/DEL/2004
PRIOR FILING DATE: 2004-02-06
NUMBER OF SEQ ID NOS: 763
SOFTWARE: PatentIn version 3.3
SEQ ID NO 168
LENGTH: 552
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis H37Rv
US-11-052-554A-168

Query Match      68.1%; Score 32; DB 11; Length 552;
Best Local Similarity 71.4%; Pred. NO. 1.3e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 NTGLYNL 9
      |||||
Db      531 NTGLYNL 537

RESULT 33
US-10-963-439-6
Sequence 6, Application US/10963439
Publication No. US20060079444A1
GENERAL INFORMATION:
APPLICANT: Ron, Dina
TITLE OF INVENTION: HUMAN SEF ISOFORMS AND METHODS OF USING SAME FOR CANCER GENE
TITLE OF INVENTION: THERAPY
FILE REFERENCE: 28385
CURRENT APPLICATION NUMBER: US/10/963,439
CURRENT FILING DATE: 2004-10-11
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn version 3.3
SEQ ID NO 6
LENGTH: 707
TYPE: PRT
ORGANISM: Homo sapiens
US-10-963-439-6
```

Query Match 68.1%; Score 32; DB 9; Length 707;  
Best Local Similarity 71.4%; Pred. No. 1.7e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|:|||||:  
Db 18 NSGLYNI 24

## RESULT 34

US-11-311-555-18  
; Sequence 18, Application US/11311555  
; Publication No. US2006008916A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Chen, Jian  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Li, Hanzhong  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Vanlookeren, Menno  
; APPLICANT: Vandlen, Richard  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William  
; APPLICANT: Yansura, Daniel  
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
; FILE REFERENCE: P1381R1C1P1(US)  
; CURRENT FILING DATE: 2005-12-20  
; PRIOR APPLICATION NUMBER: US/09/747,259  
; PRIOR FILING DATE: 2000-12-20  
; PRIOR APPLICATION NUMBER: US 09/311,832  
; PRIOR FILING DATE: 1999-05-14  
; PRIOR APPLICATION NUMBER: US 60/172,096  
; PRIOR FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: PCT/US99/31274  
; PRIOR FILING DATE: 1999-12-30  
; PRIOR APPLICATION NUMBER: US 60/175,481  
; PRIOR FILING DATE: 2000-01-11  
; PRIOR APPLICATION NUMBER: PCT/US00/04341  
; PRIOR FILING DATE: 2000-02-18  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: US 60/191,007  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/07532  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/15264  
; PRIOR FILING DATE: 2000-06-02  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 39  
; SEQ ID NO 18  
; LENGTH: 728  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-11-311-555-18

Query Match 68.1%; Score 32; DB 10; Length 728;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|:|||||:  
Db 26 NSGLYNI 32

## RESULT 35

US-11-311-561-18  
; Sequence 18, Application US/11311561  
; Publication No. US2006008917A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Chen, Jian  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul  
; APPLICANT: Grimaldi, Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Li, Hanzhong  
; APPLICANT: Hillan, Kenneth  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Vanlookeren, Menno  
; APPLICANT: Vandlen, Richard  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William  
; APPLICANT: Yansura, Daniel  
; TITLE OF INVENTION: IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF  
; FILE REFERENCE: P1381R1C1P1(US)  
; CURRENT FILING DATE: 2005-12-20  
; PRIOR APPLICATION NUMBER: US/09/747,259  
; PRIOR FILING DATE: 2000-12-20  
; PRIOR APPLICATION NUMBER: US 09/311,832  
; PRIOR FILING DATE: 1999-05-14  
; PRIOR APPLICATION NUMBER: US 60/172,096  
; PRIOR FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: PCT/US99/31274  
; PRIOR FILING DATE: 1999-12-30  
; PRIOR APPLICATION NUMBER: US 60/175,481  
; PRIOR FILING DATE: 2000-01-11  
; PRIOR APPLICATION NUMBER: PCT/US00/04341  
; PRIOR FILING DATE: 2000-02-18  
; PRIOR APPLICATION NUMBER: PCT/US00/05841  
; PRIOR FILING DATE: 2000-03-02  
; PRIOR APPLICATION NUMBER: US 60/191,007  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/07532  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: PCT/US00/15264  
; PRIOR FILING DATE: 2000-06-02  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 39  
; SEQ ID NO 18  
; LENGTH: 728  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-11-311-561-18

Query Match 68.1%; Score 32; DB 10; Length 728;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|:|||||:  
Db 26 NSGLYNI 32

## RESULT 36

US-11-072-512-3399  
; Sequence 3399, Application US/11072512  
; Publication No. US20060029945A1  
; GENERAL INFORMATION:  
; APPLICANT: ISOGAL, TAKAO  
; APPLICANT: SUGIYAMA, TOMOYASU  
; APPLICANT: OTSUJIMA, TETSUJI  
; APPLICANT: WAKAMATSU, AI  
; APPLICANT: SATO, HIROYUKI

```

; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HTO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 3399
; LENGTH: 728
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-072-512-3399

Query Match
Best Local Similarity 68.1%; Score 32; DB 11; Length 728;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGGLYNL 9
Db 39 NSGLYNI 45

RESULT 37
US-10-963-439-5
; Sequence 5, Application US/10963439
; Publication No. US20060079444A1
; GENERAL INFORMATION:
; APPLICANT: Ron. Duna
; TITLE OF INVENTION: HUMAN SER ISOPFORMS AND METHODS OF USING SAME FOR CANCER GENE
; FILE REFERENCE: 28385
; CURRENT APPLICATION NUMBER: US/10/963,439
; CURRENT FILING DATE: 2004-10-11
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent version 3.3
; SEQ ID NO 5
; LENGTH: 739
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-963-439-5

Query Match
Best Local Similarity 68.1%; Score 32; DB 9; Length 739;
Best Local Similarity 71.4%; Pred. No. 1.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 NTGGLYNL 9
Db 50 NSGLYNI 56

RESULT 38
US-11-152-974A-318
; Sequence 318, Application US/11152974A
; Publication No. US20060051395A1
; GENERAL INFORMATION:
; APPLICANT: Wayne F. Beyer, Jr.
; APPLICANT: Robin Hyde-DeRuysscher
```

```

; APPLICANT: Paul T. Hamilton
; APPLICANT: Ray Edward Benson
; TITLE OF INVENTION: IFMBs to Promote the Specific Attachment of Target Analyses to the
; TITLE OF INVENTION: of Orthopedic Implants
; FILE REFERENCE: AFP006
; CURRENT APPLICATION NUMBER: US/11/152,974A
; CURRENT FILING DATE: 2005-06-15
; PRIOR APPLICATION NUMBER: 60/580,019
; PRIOR FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/651,338
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/651,747
; PRIOR FILING DATE: 2005-02-10
; NUMBER OF SEQ ID NOS: 558
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 318
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: isolated from phage display libraries
; US-11-153-143A-318

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 13;
Best Local Similarity 62.5%; Pred. No. 3.8;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTNWGLYN 8
Db 1 LTNWGLYN 8

RESULT 39
US-11-153-143A-318
; Sequence 318, Application US/11153143A
; Publication No. US20060051396A1
; GENERAL INFORMATION:
; APPLICANT: Paul T. Hamilton
; APPLICANT: Mark W. Grinstaff
; APPLICANT: Daniel J. Kenan
; APPLICANT: Dale J. Christensen
; TITLE OF INVENTION: Bifunctional Coatings
; FILE REFERENCE: AFP005
; CURRENT APPLICATION NUMBER: US/11/153,143A
; CURRENT FILING DATE: 2005-06-15
; PRIOR APPLICATION NUMBER: 60/580,019
; PRIOR FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/651,338
; PRIOR FILING DATE: 2005-02-09
; PRIOR APPLICATION NUMBER: 60/651,747
; PRIOR FILING DATE: 2005-02-10
; NUMBER OF SEQ ID NOS: 558
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 318
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: isolated from phage display libraries
; US-11-153-143A-318

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 13;
Best Local Similarity 62.5%; Pred. No. 3.8;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 LTNWGLYN 8
Db 1 LTNWGLYN 8

RESULT 40
US-10-793-626-2192
; Sequence 2192, Application US/10793626
```

```
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2192
; LENGTH: 286
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2192

Query Match
Best Local Similarity 66.0%; Score 31; DB 9; Length 286;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LNTGTGLYNL 7
Db 132 LTRTGLY 138

RESULT 41
US-11-079-463-6223
; Sequence 6223, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6223
; LENGTH: 367
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-6223

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 367;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGTGLYNL 9
Db 273 LTVSGRYNL 281

RESULT 42
US-11-188-298-13458
; Sequence 13458, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569

; SEQ ID NO 13458
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Chloroflexus aurantiacus
US-11-188-298-13458

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 431;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NTGLYNL 9
Db 65 NSGLYLV 71

RESULT 43
US-11-079-463-5684
; Sequence 5684, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5684
; LENGTH: 472
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-5684

Query Match
Best Local Similarity 66.0%; Score 31; DB 11; Length 472;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LNTGTGLYNL 9
Db 347 LTKITLYNL 355

RESULT 44
US-11-045-004-173
; Sequence 173, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: ESILH, HAFIDA
; APPLICANT: DEHOIX, PIERRE
; APPLICANT: DUSSURET, OLIVIER
; APPLICANT: CHETOUNI, FARID
; APPLICANT: NEJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUNH, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
```

APPLICANT: CHAKRABORTY, TRINAD  
APPLICANT: DOMANN, EUGEN  
APPLICANT: HAIN, THORSTEN  
APPLICANT: BERCHE, PATRICK  
APPLICANT: CHARBIT, ALAIN  
APPLICANT: DURANT, LIONEL  
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO  
APPLICANT: BAQUERO, FERNANDO  
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO  
APPLICANT: GOMEZ-LOPEZ, NURIA  
APPLICANT: MADUENZO, ENCARN  
APPLICANT: PABLOS, BETRIZ DE  
APPLICANT: WEHLAND, JURGEN  
APPLICANT: KARST, UWE  
APPLICANT: ENTIAN, KARL-DIETER  
APPLICANT: HAUP, JORG  
APPLICANT: ROSE, MATTHIAS  
APPLICANT: VOS, HAMUT  
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES  
FILE REFERENCE: 05394.0018-02  
CURRENT APPLICATION NUMBER: US/11/045,004  
CURRENT FILING DATE: 2005-01-28  
PRIOR APPLICATION NUMBER: 10/637,657  
PRIOR FILING DATE: 2003-08-11  
PRIOR APPLICATION NUMBER: 10/257,023  
PRIOR FILING DATE: 2002-10-08  
PRIOR APPLICATION NUMBER: PCT/FR01/0118  
PRIOR FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: FR 00/04,629  
PRIOR FILING DATE: 2000-04-11  
NUMBER OF SEQ ID NOS: 2854  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 173  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Listeria monocytogenes  
US-11-045-004-173

Query Match 66.0%; Score 31; DB 11; Length 504;  
Best Local Similarity 62.5%; Pred. No. 1.9e+02;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 2 TWTGLYNL 9  
DB 179 SGTGLYNI 186

RESULT 45  
US-11-087-099-3289  
Sequence 3289, Application US/11087099  
Publication No. US20060041961A1  
GENERAL INFORMATION:  
APPLICANT: Adad, Mark S. et al.  
TITLE OF INVENTION: Genes and Uses for Plant Improvement  
FILE REFERENCE: 38-21(53450)B EP  
CURRENT APPLICATION NUMBER: US/11/087,099  
CURRENT FILING DATE: 2005-03-22  
NUMBER OF SEQ ID NOS: 12464  
SEQ ID NO 3289  
LENGTH: 744  
TYPE: PRT  
ORGANISM: Saccharomyces cerevisiae  
US-11-087-099-3289

Query Match 66.0%; Score 31; DB 11; Length 744;  
Best Local Similarity 85.7%; Pred. No. 2.9e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 LTNITGLY 7  
DB 188 LTNITGLY 194

RESULT 46  
US-10-523-477-14  
Sequence 14, Application US/10523477  
Publication No. US20050266406A1  
GENERAL INFORMATION:  
APPLICANT: EXELIXIS, INC.  
TITLE OF INVENTION: MAXS AS MODIFIERS OF THE AXIN PATHWAY AND METHODS OF USE  
FILE REFERENCE: EX03-051C-US  
CURRENT APPLICATION NUMBER: US/10/523,477  
CURRENT FILING DATE: 2005-02-04  
PRIOR APPLICATION NUMBER: US 60/401,534  
PRIOR FILING DATE: 2002-08-07  
PRIOR APPLICATION NUMBER: US 60/411,153  
PRIOR FILING DATE: 2002-09-16  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 14  
LENGTH: 948  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-523-477-14

Query Match 66.0%; Score 31; DB 9; Length 948;  
Best Local Similarity 85.7%; Pred. No. 3.7e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 LTNITGLY 7  
DB 36 LTNITGLY 42

RESULT 47  
US-10-503-683-185  
Sequence 185, Application US/10503683  
Publication No. US20060078880A1  
GENERAL INFORMATION:  
APPLICANT: Barbas, Carlos F., III  
TITLE OF INVENTION: ZINC FINGER LIBRARIES  
FILE REFERENCE: 8098-009-US  
CURRENT APPLICATION NUMBER: US/10/503,683  
CURRENT FILING DATE: 2004-08-03  
PRIOR APPLICATION NUMBER: PCT/US03/03705  
PRIOR FILING DATE: 2003-02-07  
PRIOR APPLICATION NUMBER: US 60/354,981  
PRIOR FILING DATE: 2002-02-07  
NUMBER OF SEQ ID NOS: 221  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 185  
LENGTH: 8  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthesized  
US-10-503-683-185

Query Match 63.8%; Score 30; DB 9; Length 8;  
Best Local Similarity 85.7%; Pred. No. 1.9e+05;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 2 TWTGLYN 8  
DB 2 TWTGLYN 8

RESULT 48  
US-10-530-061-1684  
Sequence 1684, Application US/1053061  
Publication No. US20060079453A1  
GENERAL INFORMATION:  
APPLICANT: SIDNEY, JOHN  
APPLICANT: SOUTHWOOD, SCOTT  
APPLICANT: SETTE, ALESSANDRO

TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES  
FILE REFERENCE: 2060.03US02/EKS/M-M  
CURRENT APPLICATION NUMBER: US/10/530.061  
CURRENT FILING DATE: 2005-04-04  
PRIOR APPLICATION NUMBER: PCT/US03/31308  
PRIOR FILING DATE: 2003-10-03  
PRIOR APPLICATION NUMBER: 60/416,207  
PRIOR FILING DATE: 2002-10-03  
PRIOR APPLICATION NUMBER: 60/417,269  
PRIOR FILING DATE: 2002-10-08  
NUMBER OF SEQ ID NOS: 2503  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 1684  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Human papillomavirus  
US-10-530-061-1684

Query Match 63.8%; Score 30; DB 9; Length 15;  
Best Local Similarity 85.7%; Pred. No. 7;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 NTGLYNL 9  
|||  
1 NTGLYNL 7

RESULT 49  
US-10-311-822-6

Sequence 6, Application US/10311822  
Publication No. US20060052591A1  
GENERAL INFORMATION:

APPLICANT: HYSEQ, INC.  
APPLICANT: BOYLE, BRYAN J  
APPLICANT: KOO, CHIAHYUN  
APPLICANT: ARTERBURN, MATTHEW C  
APPLICANT: TANG, Y. TOM  
APPLICANT: LIU, CHENGHUA  
APPLICANT: DRMANAC, RADJUE T  
TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO CARCINOEMBRYONIC ANTIGEN-LIKE  
FILE REFERENCE: 21272-026 (HYS-24)  
CURRENT APPLICATION NUMBER: US/10/311.822  
CURRENT FILING DATE: 2002-12-17  
PRIOR APPLICATION NUMBER: US 09/665,533  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: US 09/491,404  
PRIOR FILING DATE: 2000-01-25  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 6  
LENGTH: 45  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-311-822-6

Query Match 63.8%; Score 30; DB 9; Length 45;  
Best Local Similarity 66.7%; Pred. No. 23;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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33 LTDTGRYTL 41

RESULT 50  
US-11-091-018-5  
Sequence 5, Application US/11091018  
Publication No. US20050287551A1  
GENERAL INFORMATION:  
APPLICANT: Gietarsdotcitr, Solveig  
APPLICANT: Thorleifsson, Gudmar  
APPLICANT: Gulcher, Jeffrey R.

TITLE OF INVENTION: SUSCEPTIBILITY GENE FOR HUMAN STROKE;  
FILE REFERENCE: 2345.2010-016  
CURRENT APPLICATION NUMBER: US/11/091.018  
CURRENT FILING DATE: 2005-03-25  
PRIOR APPLICATION NUMBER: PCT/US03/29906  
PRIOR FILING DATE: 2003-09-25  
PRIOR APPLICATION NUMBER: 10/255,120  
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PRIOR APPLICATION NUMBER: 10/419,723  
PRIOR FILING DATE: 2003-04-18  
PRIOR APPLICATION NUMBER: 10/650,120  
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PRIOR APPLICATION NUMBER: 10/067,514  
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PRIOR APPLICATION NUMBER: 09/811,352  
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NUMBER OF SEQ ID NOS: 102  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 5  
LENGTH: 215  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-091-018-5

Query Match 63.8%; Score 30; DB 11; Length 215;  
Best Local Similarity 85.7%; Pred. No. 1.2e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Search completed: May 5, 2006, 08:51:32  
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